## EXHIBIT 27

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Page 1
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                    IN THE UNITED STATES DISTRICT COURT
                      FOR THE DISTRICT OF NEW JERSEY
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           IN RE JOHNSON & JOHNSON
 5
           TALCUM POWDER PRODUCTS
                                          ) MDL NO.
           MARKETING, SALES PRACTICES AND)16-2738 MAS RLS
           PRODUCTS LIABILITY LITIGATION )
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10
11
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13
                DEPOSITION OF MICHELE L. COTE, PH.D., M.P.H.
14
15
16
17
                  The deposition upon oral examination of
           MICHELE L. COTE, PH.D., M.P.H., a witness produced
18
19
           and sworn before Wendi Kramer Sulkoske, Notary Public
20
           in and for the County of Boone, State of Indiana,
21
           taken on behalf of the Defendant at Faegre Drinker
22
           Biddle & Reath, 300 North Meridian Street, Suite
23
           2500, Indianapolis, Marion County, Indiana on March
24
           21, 2024, pursuant to the Applicable Rules of
25
           Procedure.
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6 7	plyons@ashcraftlaw.com	7	Association of Talcum Powder Use With Increased Risk of Ovarian Cancer
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9	leigh.odell@beasleyallen.com	^	Exhibit 20 Association of Powder Use in the 241
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12	ctisi@levinlaw.com	12	Cancer Epidemiology Study
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14	Tracy A. Finken (Via Zoom) 18th Street, suite 1600	1.4	Ovarian Cancer Risk Examining the
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20	sjames@shb.com	19	and Meta-analysis
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2			
3	Exhibit Description Page	2	the witness herein, having been first duly sworn to
4	Exhibit 1 Notice of Deposition 8	3	tell the truth, the whole truth, and nothing but the
5	Exhibit 2 Dr. Cote Expert Report 9	4	truth, was examined and testified as follows:
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	Page 6	Page 8
1	A No.	1 correct?
2	Q Have you disclosed to your employer that you are	2 A Yes.
3	doing litigation work?	3 Q You are providing your testimony today just as if
4	A Yes.	4 you were in front of a judge or jury.
5	Q Do they have policies that require such a	5 Do you understand that?
6	disclosure?	6 A Yes.
7	A No.	7 Q Have you ever done any prior work as an expert in
8	Q Do they know the subject matter of your litigation	8 any litigation?
9	work?	9 A No.
	A Yes.	10 (EXHIBIT NUMBER 1 WAS MARKED FOR
11	Q You understand today that we are here to take your	11 IDENTIFICATION.)
12	deposition in the talc MDL and also in the talc	12 Q I'm going to hand you Exhibit Number 1, a copy of
13	New Jersey state court litigation?	the deposition notice. Okay?
	A Yes.	14 A Okay.
1		
15	Q Have you been disclosed as an expert in any other	15 Q Okay. And, Dr. Cote, have you seen this document before?
16	tale litigation?	
	A No.	17 A Yes, I have.
18	Q When were you first contacted about serving as an	18 Q Turn to Page 3.
19	expert in the talc litigation?	19 A Yes.
1	A I believe it was January of last year. So	20 Q Do you see there is a Schedule A?
21	January 2023.	21 A I do.
22	Q Okay. Who first contacted you?	22 Q Then below that it says Documents To Be Produced.
23	A Ms. Parfitt.	Do you see that?
24	Q When did you agree to serve as an expert in the	24 A Yes.
25	talc litigation?	25 Q There are several pages with document requests.
	Page 7	
1	A It was at some point I think later that summer or	1 Do you understand that?
2	maybe even early, like, early September. Fairly	2 A Yes, I see that.
3		
	recently.	3 Q Did you review this list of document requests?
4	Q And we are discussing 2023 still?	<ul><li>3 Q Did you review this list of document requests?</li><li>4 A I did at the time I received this.</li></ul>
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5 6 7 8 9	<ul> <li>Q And we are discussing 2023 still?</li> <li>A Yes.</li> <li>Q Did you have any prior work or relationship with plaintiff's counsel?</li> <li>A No.</li> <li>Q Is this your first deposition?</li> </ul>	3 Q Did you review this list of document requests? 4 A I did at the time I received this. 5 Q Did you bring any documents with you today that have not yet been produced to me? 7 A No. 8 Q I understand that in this case you have produced 9 an expert report.
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3 (Pages 6 - 9)

	Page 10		P 12
1			Page 12  Q Let's start with
2	Number 3.	1	A Let's look and see.
3	(EXHIBIT NUMBER 3 WAS MARKED FOR		
4	IDENTIFICATION.)	4	A So the top one dated 1/8/2024?
5	Q Are there any other responsive materials to the	5	MS. PARFITT: 11/2/23.
		1	
6		1 _	2
7 8	than the report and the invoices?  A No.	7	
		8	perhaps.
9	Q I see that you have in front of you a fairly	9	Q Okay. Focusing on the one that has a cover sheet
10	substantial binder, correct?	10	of 11/2, do you see that?
11	A Three of them, yes.	11	A Yes, I do.
12	Q Fair enough. Can you in a very brief fashion	12	Q Do you see that that invoice, or set of invoices
13	explain to me what are in those binders?	13	has work for March, September, and October,
14	, i i	14	correct?
15	that was all cited in my expert report.		A Right.
16		1	1
17	and also the additional materials considered, or	17	cover sheet dated 1/8/2024.
18	just the literature cited?	18	MS. PARFITT: There are two marked
19	A Just the literature cited.	19	1/8/2024. They are different invoices.
20	MS. PARFITT: For the record, we provided		~
21	counsel with a drop box of reference materials.	21	November 2023, correct?
22	She should have access to that.	22	
23	MR. JAMES: Understood.	23	
24	Q It looks to me like your binders, that at least	24	of 1/8 is for work in December of 2023, is that
25	some of the materials may be work copies, is that	25	correct?
	some of the materials may be work topics, is that	23	concet:
1	Page 11		Page 13
1	Page 11 fair?	1	Page 13 A Yes, that is correct.
2	Page 11 fair? A Yes.	1 2	Page 13  A Yes, that is correct.  Q Okay. Are these all of the invoices that you
2 3	Fage 11 fair? A Yes. Q You have marked up, I see, the report in front of	1 2 3	Page 13  A Yes, that is correct.  Q Okay. Are these all of the invoices that you have invoiced to date for your work in this
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1	5. 44		5 4
1	Page 14 MR. JAMES: Counsel, we would request tha	t 1	Page 16  Q Over the course of your work in this litigation
2	you produce the supplemental invoice when it's	2	have you had meetings with anyone other than
3	available.	3	Ms. Parfitt and Ms. O'Dell?
4	MS. PARFITT: Of course.	4	A Yes. Chris has been on some of those calls.
5	Q I see in the top invoice the cover sheet of 11/2.	5	Patrick, who is on the phone today, has been
6	Can you open that one for me, the 11/2 cover	6	on some of those calls. I really think that is it
7	sheet?	7	that I can recall.
8	A Yes.	8	Q Just for purposes of the record, you are referring
9	Q I see that the first entry that is invoiced is	9	to Mr. Tisi and Mr. Lyons, correct?
10	from March 15, do you see that?	10	A Yes.
11	A Yes, I do.	11	Q Is the time that you have spent since December,
12	Q That says Introductory Meeting.	12	has that been dedicated to preparing for today's
13	Do you see that?	13	deposition?
14	A Uh-huh.	14	A Yes.
15	Q Is that yes?	15	Q Have you done any additional review of new
16	A Yes. I'm sorry.	16	materials since the December time period?
17 18	Q No worries. Is that the first call that you had with counsel about working on this litigation?	17   18	A Some things as they have come in, yes.  Q I see your expert report is dated November 15,
19	A I actually believe I spoke briefly with Michelle	19	correct?
20	sometime I received an email, like, the end of	20	A Correct.
21	January. We spoke briefly over the phone.	21	Q Are there any additional materials that you are
22	Then we have I thought about it some. We	22	relying on for the opinions that you intend to
23	set up a call for March. So, yes.	23	offer in this litigation that are not captured in
24	Q And then I see that on 3/23 you invoiced for 120	24	the report?
25	minutes of first literature review.	25	A No, not for the overall opinion.
	Page 15		Page 17
1	Do you see that?	1	Q When you say not for the overall opinion, what do
2	A Yes.		
	11 105.	2	you mean?
3	Q And then on 3/27 you have invoiced for a review	3	A There is additional data that has come forth since
3 4	Q And then on 3/27 you have invoiced for a review history call, is that correct?		A There is additional data that has come forth since that time or additional announcements that I've
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	Page 18		Page 20
1	A No.	1	Trisha Moorman and Anne McTiernan.
2	Q I understand you are charging \$400 an hour for	2	Q Have you reviewed any expert reports from any
3	your time in this litigation?	3	epidemiologists that are retained by the
4	A Yes.	4	defendants in this litigation?
5	Q Is that the rate for all of the activity that you	5	A No, I don't believe so.
6	have done in this litigation whether it be review	6	Q Have you reviewed any expert reports for any
7	or testimony?	7	experts retained by the defendants in this
8	A Yes.	8	litigation?
9	Q Do you know any experts that the plaintiffs have	9	A No.
10	retained to work on this litigation?	10	MS. PARFITT: Objection.
11	A Yes. I know Trish Moorman. Trisha Moorman.	11	Q Have you reviewed any recent reports, anything
12	Q Have you discussed this litigation with	12	more recent from plaintiff expert retained
13	Dr. Moorman?	13	epidemiologists other than the McTiernan and
14	A No.	14	Moorman 2017 reports that you referred to?
15	Q How are you aware that she is an expert for the	15	A I did briefly review Dr. Moorman's deposition from
16	plaintiffs in this litigation?	16	a couple weeks ago.
17	A When Michelle contacted me, she, I asked how she	17	Q You are referring to her deposition?
18	got my name and it was through Dr. Moorman.	18	A Yes.
19	Q Do you know Dr. Moorman professionally or	19	Q Have you reviewed any other deposition testimony
20	personally or both?	20	of plaintiffs' retained experts in this
21	A Professionally.	21	litigation?
22	Q Have you co-authored papers with Dr. Moorman?	22	A No.
23	A Yes, we have.	23	Q Why did you review Dr. Moorman's deposition
24	Q Was Dr. Moorman on the Schildkraut 2016 paper?	24	testimony?
25	A She was indeed. She was the last author.	25	A As I stated, I have never done this before. I
	Page 19		Page 21
1	Q Do you know anything else about why Dr. Moorman	1	just kind of wanted to get an idea of how the day
2	recommended you?	2	would go.
3	MS. PARFITT: Objection.	3	Q Do you know Ghassan Saed, S-A-E-D?
4	A No.	4	A No, I do not.
5	Q Do you know any other experts that are working for	5	Q Do you know Nicole Fletcher?
6	the plaintiffs in the talc litigation besides	6	A No.
7	Dr. Moorman?	7	Q Amy Harper, do you know her?
8	A Not personally, no.	8	A No.
9	Q Do you know the identity of any other experts who	9	Q Have you ever heard of those names?
10	are working for the plaintiffs in the talc	10	A Yes. They are in my materials.
11	litigation?	11	Q Okay. Understood. Before you reviewed their
12	A I have heard names.	12	materials for your work in this litigation had you
13	Q Who have you heard?	13	ever heard of them?
14	A This will be a memory test. Anne McTirnan. Sunil,	14	A No.
15	I don't recall the last name.	15	Q Before you reviewed their literature in the
16	MS. PARFITT: Singh.	16	context of this litigation had you ever worked
17	A Singh. Yes. Harlow. Rothman. That's all my	17	with them?
18	brain is coming up with this morning.	18	A No, I had not.
19	Q Okay. Have you ever communicated with any of the	19	Q Do you understand that Saed is at Wayne State?
20	plaintiff experts in this litigation about talc	20	A I do, yes.
21	and ovarian cancer?	21	Q And when you were at Wayne State did you have any
	A No.	22	interactions with him?
22			
22 23	Q Have you reviewed the expert reports of any other	23	A Not to my recollection, no.
23 24	<ul><li>Q Have you reviewed the expert reports of any other plaintiff experts in this litigation?</li><li>A I did review a report from, I think, 2017 of</li></ul>	<ul><li>23</li><li>24</li><li>25</li></ul>	<ul><li>A Not to my recollection, no.</li><li>Q When you were at Wayne State or at Karmanos did you have any interactions with Saed, Harper, or</li></ul>

		Page 22		Page 24
1		Fletcher?	1	A At some point in time I'm open to reviewing
2		No.	2	literature from anywhere.
3		Did you ever collaborate with any of them on any		Q Are you aware that the comments to those
4	V	work?	4	publications contain serious scientific concerns
5	Δ	No.	5	about the validity of those studies?
6		Did you ever review any of their studies or	6	MS. PARFITT: Objection.
7	V	literature before let me start over.	7	A No.
8		Did you ever review any of their literature	8	Q Do you know how many journals have rejected the
9		or studies before being retained in this	9	articles published by Saed, Fletcher, or Harper?
10		litigation?	10	MS. PARFITT: Objection.
11		No.		A No.
12		Do you understand that Dr. Saed is a paid	12	
13	Q	plaintiffs' expert in this litigation?	13	Q Would you like to know that?
14	٨	I do.		MS. PARFITT: Objection.  A No.
1		Do you know how his studies were funded?	14	
15		I do not.	15	Q And would peer reviewed comments on those
16			16	publications impact or inform your opinions in
17	Ų	When I refer to his studies, I'm referring to any studies on which he is a co-author.	17	this litigation?
18			18	MS. PARFITT: Objection.
19	٨	Do you understand that?  I do understand that.	19	
20		- 0.0 11-11-11-11-11-11-11-11-11-11-11-11-11-	20	Q Why not?
21		And do you understand he has co-authored with	21	A During the review process, speaking as somebody
22		Fletcher?	22	who was co-authored over 150 different papers,
23		Yes.	23	when we send it to a journal, send it meaning our
24	_	Fletcher is one of the literature references in	24	final manuscript to a journal, they assign
25		your report, correct?	25	reviewers.
1		Page 23		Page 25
1	Α.	Correct	1	Oftentimes they most of the time the
1 2		Correct.	1	Oftentimes they most of the time the
2	Q	Do you know if his studies were funded by the	2	reviewers are unknown to us. We don't have an
3	Q	Do you know if his studies were funded by the plaintiffs' bar or through his work in the	2 3	reviewers are unknown to us. We don't have an open policy of disclosing. It is not at all
3 4	Q	Do you know if his studies were funded by the plaintiffs' bar or through his work in the plaintiffs' litigation?	2 3 4	reviewers are unknown to us. We don't have an open policy of disclosing. It is not at all unusual to get reviewer comments back even if the
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3 4 5 6	Q A	Do you know if his studies were funded by the plaintiffs' bar or through his work in the plaintiffs' litigation?  MS. PARFITT: Objection.  I do not know. I believe that he lists his work	2 3 4 5 6	reviewers are unknown to us. We don't have an open policy of disclosing. It is not at all unusual to get reviewer comments back even if the journal accepts.  So you have no way of really vetting who is
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q A Q A Q	Do you know if his studies were funded by the plaintiffs' bar or through his work in the plaintiffs' litigation?  MS. PARFITT: Objection.  I do not know. I believe that he lists his work as a consultant in the talc trials as a conflict of interest or additional information on the manuscript.  But that is the extent about how he was funded that I know.  All you know is what is disclosed in the conflict of interest, correct?  Yes.  Have you ever reviewed any peer review comments associated with any studies published by Saed, Fletcher, or Harper?  No.  Are you aware that peer reviewed comments for those studies have been published in this litigation?  No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reviewers are unknown to us. We don't have an open policy of disclosing. It is not at all unusual to get reviewer comments back even if the journal accepts.  So you have no way of really vetting who is reviewing your work. You have to kind of trust that the editor is making an informed decision that the people who are reviewing the manuscript have the appropriate scientific expertise.  And that is a pretty big assumption. So I would assume that because a journal eventually published it, that the editorial board was satisfied with the response to the reviewers' comments, that if there were any glaring errors or issues with the scientific methodology that they would have been resolved, or else the journal would not have published that manuscript.  They are experts in that field. I'm not an expert in the type of work that they were doing. So it would not be particularly useful for me to review the comments.

,	Page 26		Page 28
1	Q If those comments identified scientific flaws in	1	is there are distinct subtypes of ovarian cancer,
2	the studies would you consider the comments for	2	epithelial ovarian cancer.
3	that purpose?	3	Q Is your expert opinion that perineal talc use is
4	MS. PARFITT: Objection.  A As I stated earlier, I would assume that those	5	associated with all subtypes of EOC or only some subtypes of EOC?
5 6	issues were resolved adequately in order for the	6	A As I was asked to review, it would be all subtypes
7	paper to be peer reviewed published.	7	of EOC.
8	Q Have you ever reviewed any of the litigation	8	Q And so your testimony is that perineal talc use is
9	reports authored by Dr. Saed in this talc	9	associated with high grade serous, low grade
10	litigation?	10	serous, endometroid, clear cell, mucinous, and
11	A No, I've not.	11	borderline ovarian cancer?
12	Q Do you recognize that epithelial ovarian cancer	12	A Yes, I would. There's varying strength of
13	includes multiple subtypes?	13	evidence, but I only considered it as a whole.
14	A I do, yes.	14	And given that high grade serous is the most
15	Q Do you agree that the "Histologic subtypes are	15	common form of EOC, most of the findings are
16	differentiated based on the cell origin, molecular	16	driven by the subtype.
17	alterations, and clinical behavior." Is that	17	Q Did you undertake a histopathology specific
18	Correct?	18	analysis of the subtypes and the associations
19	A Generally speaking, yes.	19	between talc and ovarian cancer?
20	Q I believe I was quoting from your report.	20	A No, I did not.
21	A Yes.	21	Q Is it conceivable to you that an agent like
22	Q For example, in your report you note that	22	perineal talc can cause the diverse subtypes of
23	endometroid and clear cell tumors can arise from	23	epithelial ovarian cancer?
24	endometriosis, correct?	24	A I guess I need clarification of that question.
25	A Yes, that is in my report.	25	Are you talking about the differentiations
	Page 27		Page 29
1	Q You also note in your report important differences	1	that talc could drive the differentiation of these
2	on cell origin, molecular alterations, clinical	2	different subtypes?
3	behavior for all of the subtypes, including	3	Q Yeah. I can try to rephrase.
4	endometroid, clear cell, high grade serous, low	4	A Okay.
5	grade serous, mucinous, correct?	5	Q Is it plausible to you, is it biologically
6	A Correct.	6	plausible to you that a particle like talc could
7	Q Do you agree that EOC, or epithelial ovarian	7	cause all of these distinct types of cancer?
8	cancer, is composed of multiple distinct cancers	8	A Well, we are talking about two different things
9	each with different clinical presentation,	9	here. I mean, biological plausibility is part of
10	different histopathology, different molecular	10	considering causation.
11	pathogenesis, different disease course and	11	So that is two different things. Do
12	different responses to various types of therapy?	12	different subtypes emerge from different
13	MS. PARFITT: Objection. Compound.	13	backgrounds, and what I mean by that is the tissue
14	A I would agree that we are still exploring some of the molecular characteristics of these different	14	background, kind of the microenvironment, the surrounding tissue, yes. That is possibly how
16		16	different subtypes are differentiated.
	subtypes and that it is extraordinarily likely	10	Again, I'm not a pathologist. I really
		17	
17	that that will lead to differences in response to	17	
17 18	that that will lead to differences in response to treatment and some of the other factors that you	18	considered this just EOC as a whole.
17 18 19	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.	18 19	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that
17 18 19 20	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.  Q Would you agree that the subtypes of EOC that fall	18 19 20	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that talc causes endometriosis-related ovarian cancer?
17 18 19 20 21	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.  Q Would you agree that the subtypes of EOC that fall under the umbrella are actually distinct cancers?	18 19 20 21	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that talc causes endometriosis-related ovarian cancer?  A I will restate the question.
17 18 19 20 21 22	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.  Q Would you agree that the subtypes of EOC that fall under the umbrella are actually distinct cancers?  A I would state that I am not a pathologist for the	18 19 20	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that talc causes endometriosis-related ovarian cancer?
17 18 19 20 21	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.  Q Would you agree that the subtypes of EOC that fall under the umbrella are actually distinct cancers?	18 19 20 21 22	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that talc causes endometriosis-related ovarian cancer?  A I will restate the question.  Is it biologically plausible in my mind that
17 18 19 20 21 22 23	that that will lead to differences in response to treatment and some of the other factors that you listed, yes.  Q Would you agree that the subtypes of EOC that fall under the umbrella are actually distinct cancers?  A I would state that I am not a pathologist for the record, but I do collaborate routinely with	18 19 20 21 22 23	considered this just EOC as a whole.  Q Is it biologically plausible in your mind that talc causes endometriosis-related ovarian cancer?  A I will restate the question.  Is it biologically plausible in my mind that talc causes endometriosis-associated ovarian

	Page 30		Page 32
1	A Again, I'm struggling with the word causation here	1	supports that. Talc has also been shown to be
2	because we are talking about is it biologically	2	potentially among users a chronic inflammatory,
3	plausible. I think that there was a good	3	can promote a chronic inflammatory state. But
4	meta-analysis, and I'm going to refer to exactly	4	they are, indeed, two distinct things.
5	which one it was, that focused on it's the most	5	Q The type of inflammation you are referring to with
6	recent one. Phung from 2022.	6	endometriosis is totally different than the type
7	And that was kind of the point of their	7	of inflammation that talc causes, correct?
8	meta-analysis, was to stratify by women who had	8	MS. PARFITT: Object to form.
9	reported endometriosis and those who reported no	9	A That I don't know. I didn't study that question
10	endometriosis and they found evidence that talc	10	in particular. What are the different types of
11	was associated with both groups of women.	11	immune cells involved in each, that I don't know.
12	And so, you know, causal, that is one paper.	12	That would be for an immunologist.
13	I am hesitating to use the word causal	13	Q Do you know if endometriosis-related inflammation
14	because I didn't look at causation specifically	14	is hormonally driven?
15	for endometriosis, related or not.	15	Are you aware of that?
16	Q You did look at plausibility as part of your	16	A I've seen some, some research that suggests that
17	Bradford Hill analysis, correct?	17	particularly after, you know, for postmenopausal
18	A Yes.	18	women, oftentimes their symptoms of endometriosis
19	Q You did talk about the different histotypes in	19	are less.
20	your report, correct?	20	So that would suggest that it is hormonally
21	A Yes.	21	driven, but that is the extent of my knowledge.
22	Q You specifically highlighted endometriosis and	22	Q Do you agree with me that the type of inflammation
23	endometroid ovarian cancer in your report,	23	or biological reaction associated with
24	correct?	24	endometriosis is dramatically different than what
25	MS. PARFITT: Objection.	25	you are alleging happens with the talc, is that
	Page 31		Page 33
1	A Yes. I didn't specifically highlight those, but I	1	correct?
2	talked about them because they are in the	2	MS. PARFITT: Objection. Form.
3	literature. And, you know, as I have noted in	3	MS. FNKEN: Objection.
4	this meta-analysis by Phung, that has been, the	4	5
5	endometriosis association has been studied	5	different mean?
6	previously. And so it was apparent in the	6	, , , , , , , , , , , , , , , , , , ,
7	literature.		2, 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
8	Q But you didn't just talk about endometriosis and	8	You can use whatever term you want.
9	endometroid ovarian cancer from an epidemiologic		MS. PARFITT: Object to the question.
10	perspective. You also talked about it from a	10	You may answer.
11 12	plausibility perspective and a mechanism	11	A In my mind there are multiple pathways that get t
12	perspective, correct?  MS. PARFITT: Objection.	12 13	the end point of inflammation and endometriosis may be one. Talc may be one. Chronic, you know
	A I'm going to have to review what I said about my	14	obesity and body weight may be another.
14 15	biologic plausibility before I answer that.	15	Does the end state and the result of that
16		16	inflammation differ? That is something that I
17	A Okay.	17	don't know. And, again, what that would really
18	Q Do you believe that because endometriosis can be		take to best dissect your question and to answer
19	referred to as an inflammatory condition that that	19	it would be, like, an actual study of the immune
20	somehow supports your opinion that talc can cause		cells, you know, what is present in that tissue,
	ovarian cancer?	21	looking at different ratios of different types of
71	MS. PARFITT: Objection. Form.	22	immune cells.
21 22	ins. I ma I i . Objection. I offit.		
22	You can answer.	23	I don't have those data. I don't know if
22 23	You can answer.  A Because endometriosis is an inflammatory	23 24	I don't have those data. I don't know if those data even exist.
22	You can answer.  A Because endometriosis is an inflammatory condition, which, yes, I believe the literature	23 24 25	I don't have those data. I don't know if those data even exist.  Q Do you have the expertise to comment on whether

1	Page 34 endometriosis related inflammation is in any way	1	Page 36 necessarily all over the map.
2	relevant to talc associated inflammation?	2	As I said, most of them are still positive.
3	MS. PARFITT: Objection. Form.	3	I think that there is a very good discussion in
4	A Do I have the expertise to determine whether	4	Cramer, the latest literature review and
5	there's an association between	5	meta-analysis from 2016 that discusses recall bias
6	endometriosis-related or if they are equivocal?	6	and the fact that you do see, I think in
7	Q No. I'm asking more of a question about	7	particular for mucinous, you don't see as positive
8	biological mechanism which is covered in your	8	of an association. You know, the odds ratios or
9	report, correct?	9	the meta odds ratio is lower than for some of the
10	A Correct.	10	other subtypes.
11	Q Do you have the expertise to make the statements		And so he uses that as rationale, which I
12	that because there is endometriosis-related	12	believe that is evidence suggesting that recall
13	inflammation that that somehow persuades you that		bias is not a significant issue in the studies.
14	talc may be causing ovarian cancer?	14	Q There you are reverting to the point that is
15	MS. PARFITT: Objection.	15	contradicting the point that you just made a few
16	A As I mentioned	16	minutes ago.
17	MS. FNKEN: Objection.	17	There you are reverting to the point that
18	A Those are two very distinct things in my mind.	18	there is subtype differences, which might be
19	Q And by those two things, you mean talc and	19	proving that the association is relevant for some
20	endometriosis are distinct?	20	subtypes and not for others.
21	A Correct. They are two distinct things.	21	You are using that point to sort of discount
22	Q Do you believe the cohort data from the talc	22	recall bias, right?
23	ovarian cancer studies demonstrates a histologic	23	MS. PARFITT: Objection. Form. Misstates
24	specific association?	24	her testimony.
25	A That is a broad question. I would say overall I	25	A No, I'm talking about two different things. You
	Page 35		Page 37
1	don't believe any of the cohort data have	1	are asking me specifically about recall bias and
2	sufficient power to look at subtypes.	2	subtypes. And I'm saying that, you know, there's
3	Q Are you aware that the case control studies on	3	at least some documentation and some suggestion
4	talc and ovarian cancer show varying results for	4	through that Cramer 2016 paper, also I believe in
5	varying subtypes of ovarian cancer?	5	one of his earlier papers he does a similar
6	MS. PARFITT: Objection. Form.	6	analysis, his paper from 1999, but it's two
7	A There are certain studies that have been	7	different things.
8	adequately powered, and these are case controlled	8	You know, one is a pathway of the biological
9	studies, to look at different subtypes.	9	plausibility of differences by subtype. This one
10	And depending on the study population, there	10	is also talking about talc and recall bias. It's
11	has been some variation in the point estimates	11	not comparing apples to apples in my mind.
12	associated with talc.	12	Q Cramer is using the fact that in 2016 his study
13	Most of them are still positive, that there	13	does not show a mucinous association to say aha!
14	is a positive association between talc use and	14	we can tell that there is not recall bias because
15	ovarian cancer.	15	the association is histologically specific.
16	Q If the studies on subtype are all over the map on	16	That is what he is doing, correct?
17	associations with subtypes and if there is varying	17	MS. PARFITT: Objection.
18	results, doesn't that suggest to you that there's	18	Q Yes or no?
19	recall bias in play in these studies?	19	A That is one piece of evidence.
20	MS. PARFITT: Objection. Form.	20	Q But you just testified that in your mind you are
21	MS. FNKEN: Objection.	21	not offering an opinion that there are
22	MR. JAMES: And we can agree that one	22	histological differences with the association
23	objection is good for you all if you would like.	23	between talc and ovarian cancer, correct?
24	MS. PARFITT: Thank you.	24	MS. PARFITT: Objection. Misstates her
25	A I would not classify the histologic types as being	25	testimony.

	Page 38		Page 40
1	A Can you repeat that?	1	A I do.
2	Q Sure. Your opinion here today is that talc is	2	MS. PARFITT: Let her finish.
3	associated with all subtypes of ovarian cancer,	3	Q That was the question. That was the question.
4	correct?	4	We will talk about Schildkraut later today.
5	A My opinion is that talc is associated with EOC. I		Okay?
6	did not do individual analyses by histologic	6	A Okay.
7	subtype.	7	Q Schildkraut, in your report, you said provides
8	So looking specifically and saying it's	8	some level of evidence of recall bias, is that
9	associated with this one, it's not associated with	9	correct?
10	that one, that is not part of my expert report.	10	A Correct.
11	What, again, what Cramer, what Cramer puts	11	Q Do you believe that perineal talc use is
12	together is based on his data of over 2,000 cases	12	associated with any types of cancer other than
13	and roughly around the same number of controls.	13	epithelial ovarian cancer?
14	And that is part of the argument as to why we		A I did not do systematic review looking at any
15	don't think recall bias is a significant issue in	15	other kinds of, you know, cancers potentially
16	these case control studies.	16	associated with perineal talc, so I can't answer
17		17	that question conclusively.
18	A That is part of it. But, you know, the argument	18	Q Sitting here today have you formed the opinion
19	that I'm most comfortable with is actually from	19	that talc causes any type of cancer other than
20	the paper that I co-authored in 2016.	20	epithelial ovarian cancer? Yes or no?
21	It's the Schildkraut paper, where it's the	21	MS. PARFITT: Objection. Asked and
22	only case control study that collected these data	22	answered.
23	since the time of litigation. So all of these	23	Q Do you have an opinion today?
24	other case control studies, these almost, I don't		A No, I have no opinion.
25	know, thirty some studies, we collected these data		Q After counsel makes an objection you are permitted
	Page 39		Page 41
1	prior to, you know, the association between talc	1	to answer unless she instructs you not to answer.
2	and ovarian cancer being broadly known by the	2	A I realize. Thank you.
3	public. Certainly before, you know, there were	3	Q Are you aware that the epidemiologic literature
4	lawsuits and all of this in the media.	4	shows that there is no association between
5	So what we were able to show in the	5	perineal talc use and endometrial ovarian
6	Schildkraut paper, we stratified from interviews	6	endometrial cancer?
7	prior to 2014 and after 2014. And definitely	7	I will restate it.
8	there is an attenuation of the odds ratio, so that	8	Are you aware that literature shows that
9	there was some evidence that there was potentially	9	there is no association between peritoneal talc
10	recall bias in the group that was interviewed	10	use and endometrial cancer?
11	after 2014, which is a really small subset of	11	MS. PARFITT: Objection to form.
12	women in the grand scheme of things when you look	12	A I have seen I have studied endometrial cancer.
13	at all of the cases and controls.	13	I have seen some data indicating no association.
14	We still had evidence consistent with an	14	Q But sitting here today, you don't have an opinion
15	association between talc use and EOC in the women	15	on it one way or the other?
16	who were interviewed prior to that time. That was	16	A Correct. Sitting here today, no opinion. I've
17	really in line with the increase in risk seen in	17	not done a systematic review of the literature.
18	these other four or five decades of studies.	18	Q I saw in your C.V. that you were on the
19	Q So there, your testimony there was related to the	19	Epidemiology Endometrial Cancer Consortium
20	fact that you have other reasons to discount	20	Steering Committee, is that correct?
21	recall bias, correct?	21	A Correct.
22	A Correct.	22	Q And if there was evidence to support the notion
23	Q I was specifically asking about Cramer's	23	that perineal talc use causes endometrial cancer,
24	histologic point that you were making.	24	you would be aware of that evidence, is that
25	Do you understand that?	25	correct?

	Page 42		Page 44
1	MS. PARFITT: Objection.	1	A No.
2	A No, not necessarily. E2C2 is what we call it.	2	Q Do you believe that it is relevant to your opinion
3	What the Epidemiology of Endometrial Cancer	3	that you are offering today whether or not talc
4	Consortium does is, similar to what the Ovarian	4	can cause endometrial cancer or cervical cancer?
5	Cancer Association Consortium, OCAC, does, which	5	Do you believe it is relevant, yes or no?
6	it brings together investigators from around the	6	A No. Because there are two, those are two very
7	world that have case control or cohort studies.	7	different organs with very different functions.
8	We include both case control and cohort	8	A good example is, you know, the endometrium,
9	studies. And we use this as a mechanism to pool	9	at least premenopausally, sheds approximately
10	our data and to examine the question, or to	10	every month.
11	examine different questions.	11	The cervix, for example, is exposed to a
12	So in endometrial cancer, you know, we have	12	much, kind of wider array of exposures. You know,
13	published, I have published using the E2C2 data	13	HPV being one of them.
14	looking at risk factor differences between Black	14	So, again, we are looking at different organs
15	and White women.	15	with different functions. It is all part of the
16	We have looked at all different dietary	16	female genital tract, so it is kind of like by
17	things. We are somewhat constrained by what is	17	location, but it's different subtypes.
18	asked in those, in every studies' questionnaire.	18	And so when you think about specificity of
19	So, you know, we don't necessarily meet as a	19	the association, that is one of the considerations
20	group even monthly. The steering committee	20	in Bradford Hill's analysis. Specificity, you
21	usually only meets maybe five times a year. And	21	know, kind of one exposure one disease, you know,
22	really it's to examine paper proposals from, you	22	many years ago was considered, you know, stronger
23	know, investigators all over the world who want to	23	evidence of a causal association. It's less so
24	use our data.	24	today.
25	I've not seen in my, you know, probably ten	25	So if I think about other, you know, female
	Page 43		Page 45
1	years now of being associated with that consortiun	l .	cancers and the association with talc for the
2	any request to look at talc. Nor do I even know	2	purposes of, you know, this expert report, it
3	how many of the different case control studies ask	3	would just be with respect to specificity of the
4	that question.	4	exposure and the outcome.
5	Q So there is no professional movement to study tal		Q In your report you said that there is some
6	in endometrial cancer, correct?	6	evidence that the talc ovarian cancer association
7	MS. PARFITT: Objection.	7	y
8	A I can't say what has been going on in other	8	A That the talc and ovarian cancer may be specific,
9	circles, no.	9	yes.
10	Q You are not aware of any professional focus on	10	Q Do you recall putting that in your report?
11	talc and endometrial cancer, correct?	11	A Yes.
12	A Correct, I am not.	12	Q And you cited the Wentzensen and O'Brien review
13	Q Your theory or hypotheses in this case is that	13	article for that proposition, correct?
14	talc can potentially or likely migrate up the		A Yes.
15	female genital tract, is that correct?	15	Q Sitting here today, just to confirm, you have not
16		16	reviewed comprehensively the literature on talc
17 18	Q Is that correct? A Correct.	17	and endometrial cancer and talc and cervical
19		18	cancer, is that correct?
20	Q Under that hypothesis, perineal talc would come into contact with the endometrium and the cervix,	19	A That is correct.  O You are not offering any opinions on specific
20 21		20	Q You are not offering any opinions on specific
21 22	correct?  MS. PARFITT: Objection.	21 22	causation today, correct?  Do you know what that term means?
23	A Correct.	23	A I do not.
24	Q Yes or no, have you looked at the literature on	23	Q Okay. Let me rephrase.
25	talc and cervical cancer?	25	You are not offering an opinion today that
	tare and cervical cancer:		Tou are not offering an opinion today that

	Page 46	Page 48
1	talc specifically caused an individual's ovarian	1 on your expertise, you world, are you aware of any
2	cancer, correct?	2 methodology to conclude that talc specifically
3	A Correct. I don't know anything about the	3 caused a specific individual's ovarian cancer?
4	individuals represented in this case.	4 MS. PARFITT: Same objection.
5	Q Your opinion today is that talc can be a general	5 A I am unaware of any methodology, including my own,
6	cause of ovarian cancer, correct?	6 that could specify that tale caused an ovarian
7	MS. PARFITT: Objection.	7 cancer in a certain individual. I'm not sure that
8	A Correct. It can be a cause of ovarian cancer.	8 that exists.
	Q Okay. Have you ever reached an opinion that a	9 Q Do you know anything about any of the plaintiffs
10	specific individual's ovarian cancer was caused by	in the MDL or the state court litigation?
11	talc?	11 A No, I do not.
12	A No. I'm not familiar with individual patient	12 Q Do you know anything about Ms. Rausa, Ms. Judkins,
13	cases.	13 Ms. Newsome, Ms. Gallardo, Ms. Converse,
14	Q Have you ever discussed with anyone whether a	Ms. Bondurant, Ms. Carl, or Ms. Balderrama?
15	specific individual's ovarian cancer was caused by	15 A No.
16	talc?	16 Q Have you reviewed any of those individual's
17 .	A No.	medical records, pathology, radiology,
18	MS. PARFITT: Objection.	18 depositions, or discovery responses?
19	Q Have you ever told a specific individual who used	19 A No.
20	talc that they were at an increased risk for	20 Q Do you know anything about their medical
21	developing ovarian cancer because of their talc	21 histories, their subtypes of ovarian cancer, their
22	use?	22 course of treatment or risk factors?
23	A No.	23 A No.
24	Q Are you aware sitting here today of any recognized	24 Q Do you know anything about their genetic or family
25	scientific methodology to take the body of	25 history?
	Page 47	Page 49
1	evidence that you have reviewed and use that	1 A No.
2	evidence to make a conclusion that talc	2 Q Are you aware that multiple of your literature
3	specifically caused a specific individual's	3 cited references in your report are materials that
4	ovarian cancer?	4 were authored by retained experts for the
5	MS. PARFITT: Objection. Form.	5 plaintiffs?
	A Can you restate that question?	6 MS. PARFITT: Objection.
7	Q Sure. Sitting here today, are you aware of any	7 A I do.
8	recognized scientific methodology to take the body	8 Q Can you open your report, please?
9	of evidence that you have used in your report and	9 A Yes.
10	conclude that talc use specifically caused a	10 Q You have it with you. Can you please turn to your
11	specific individual's ovarian cancer?	11 literature cited page. That is on Page 41.
12	MS. PARFITT: Objection.	12 A Yes.
12 13	A I'm not I'm still not sure even after the	<ul><li>12 A Yes.</li><li>13 Q Do you know how many of your literature cited</li></ul>
12 13 14	A I'm not I'm still not sure even after the second repeat of that question that I am	<ul> <li>12 A Yes.</li> <li>13 Q Do you know how many of your literature cited</li> <li>14 references are references that are authored by</li> </ul>
12 13 14 15	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.	<ul> <li>12 A Yes.</li> <li>13 Q Do you know how many of your literature cited</li> <li>14 references are references that are authored by</li> <li>15 paid experts for the plaintiffs in this litigation</li> </ul>
12 13 14 15 16	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.  Am I aware I will try to restate it to	12 A Yes. 13 Q Do you know how many of your literature cited 14 references are references that are authored by 15 paid experts for the plaintiffs in this litigation 16 offhand?
12 13 14 15 16 17	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.  Am I aware I will try to restate it to clarify it in my mind.	12 A Yes. 13 Q Do you know how many of your literature cited 14 references are references that are authored by 15 paid experts for the plaintiffs in this litigation 16 offhand? 17 MS. PARFITT: Objection.
12 13 14 15 16 17 18	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.  Am I aware I will try to restate it to clarify it in my mind.  Am I aware of any body, organization that has	12 A Yes. 13 Q Do you know how many of your literature cited 14 references are references that are authored by 15 paid experts for the plaintiffs in this litigation 16 offhand? 17 MS. PARFITT: Objection. 18 A No, I do not.
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12 13 14 15 16 17 18 19 20 21 22	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.  Am I aware I will try to restate it to clarify it in my mind.  Am I aware of any body, organization that has used the methodology that I used in my report to determine if a single individual, if the ovarian cancer in a single individual was caused by talc, is that correct?	12 A Yes. 13 Q Do you know how many of your literature cited 14 references are references that are authored by 15 paid experts for the plaintiffs in this litigation 16 offhand? 17 MS. PARFITT: Objection. 18 A No, I do not. 19 Q When you cited references in your report that were 20 authored by paid experts for the plaintiffs did 21 you note that in the report? 22 MS. PARFITT: Objection.
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12 13 14 15 16 17 18 19 20 21 22 23 24	A I'm not I'm still not sure even after the second repeat of that question that I am understanding what the point is.  Am I aware I will try to restate it to clarify it in my mind.  Am I aware of any body, organization that has used the methodology that I used in my report to determine if a single individual, if the ovarian cancer in a single individual was caused by talc, is that correct?	12 A Yes. 13 Q Do you know how many of your literature cited 14 references are references that are authored by 15 paid experts for the plaintiffs in this litigation 16 offhand? 17 MS. PARFITT: Objection. 18 A No, I do not. 19 Q When you cited references in your report that were 20 authored by paid experts for the plaintiffs did 21 you note that in the report? 22 MS. PARFITT: Objection.

	D 50			D 52
1	Page 50 industry or Johnson & Johnson you did note that,	1	A	Page 52 They were not paid experts for the plaintiff when
2	didn't you?	2		ney started their work back in the nineties.
3	MS. PARFITT: Objection.	3		My question is about the letters to the editor.
4	A I think sometimes I did. The difference was a lot	_	<b>V</b>	Do you know when those were written? Those
5	of the literature cited in the report here by	5	33/	vere written in 2020, correct?
6	people who I know now are plaintiff experts or	6	A '	
7	that it was disclosed, it is original literature.	7		When you cited those letters in the report did you
8	It was in the I have a section. I will	8	_	ote that in the report that those were paid
9	look at it just to make sure we are talking about	9		xperts for the plaintiffs?
10	the same thing. It was commentaries oftentimes.	10	C2	MS. PARFITT: Objection. Asked and
11	So a lot of the things that I noted that were	11	91	nswered.
12	from the defendant's experts or paid experts, were			Yes or no?
13	based on reviews and things that did not include,	13	A I	
14	like, novel generated analyses, you know, based or			Looking at Page 43, Dr. Cote, do you see on
15			_	• •
	case control studies or cohort studies that they, themselves, were involved in.	15	A '	Sumber 34 the reference to Longo?
16 17	•			
18	I can give an example. Some of those are	17   18		Do you understand he's a paid expert for the
19	on I'm not finding them.	19	A l	laintiffs?
20	Q When you cited Cramer's	20		r do. When you cited his material in your report did yo
20	MS. PARFITT: She is looking for something.	20	_	isclose that he was a paid expert for the
$\begin{vmatrix} 21\\22\end{vmatrix}$	MR. JAMES: She finished the answer.	22		laintiffs?
23		23	þi	
24	A I had not. I'm trying to find you exactly where.  Q I did not ask for you to find me exactly where.	24	Λ 1	MS. PARFITT: Objection.  I do not know if I did or not.
25	MS. PARFITT: It was part of the answer.			For Number 40 do you see Crowley?
23	Page 51		Ų,	Page 53
1				1 1180 00
	Q Tasked you a simple question.	1	A Y	es.
2	Q I asked you a simple question.  MS. PARFITT: Scott, you may have asked a			
2 3	MS. PARFITT: Scott, you may have asked a very simple question. You can't		Q D	Yes.  Oo you know if he is a paid expert for the aintiffs?
1	MS. PARFITT: Scott, you may have asked a	2 3	Q D	Oo you know if he is a paid expert for the aintiffs?
3	MS. PARFITT: Scott, you may have asked a very simple question. You can't Q Which is, did you note in the report	2 3	Q D pla A Y	Oo you know if he is a paid expert for the aintiffs? Yes.
3 4	MS. PARFITT: Scott, you may have asked a very simple question. You can't	2 3 4	Q D pla A Y Q In	Oo you know if he is a paid expert for the aintiffs?
3 4 5 6	MS. PARFITT: Scott, you may have asked a very simple question. You can't Q Which is, did you note in the report MS. PARFITT: Scott, please. Excuse me for one moment.	2 3 4 5 6	Q D pla A Y Q In cit	Oo you know if he is a paid expert for the aintiffs? Yes. In fact, that is a litigation report that you need, correct?
3 4 5	MS. PARFITT: Scott, you may have asked a very simple question. You can't Q Which is, did you note in the report MS. PARFITT: Scott, please. Excuse me	2 3 4 5 6	Q D pla A Y Q In cit A I	Oo you know if he is a paid expert for the aintiffs? Yes. In fact, that is a litigation report that you led, correct? believe so.
3 4 5 6 7	MS. PARFITT: Scott, you may have asked a very simple question. You can't Q Which is, did you note in the report MS. PARFITT: Scott, please. Excuse me for one moment.  MR. JAMES: No. You're not going to talk over me. It's my deposition.	2 3 4 5 6 7 8	Q D pla A Y Q In cit A I	Oo you know if he is a paid expert for the aintiffs?  Yes. In fact, that is a litigation report that you need, correct?  believe so. If you look at Page 44, Number 58?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. PARFITT: Scott, you may have asked a very simple question. You can't  Q Which is, did you note in the report     MS. PARFITT: Scott, please. Excuse me for one moment.     MR. JAMES: No. You're not going to talk over me. It's my deposition.     MS. PARFITT: You are required under the rules to allow a witness to answer responsively your questions. Choose your questions carefully.     You may complete your answer, Doctor.  A Yes. I just wanted to note that that is on Pages 23 and 24 of my report.     MS. PARFITT: Thank you.  Q Dr. Cote, when my question calls for a yes or no, that is what I'm asking for. Okay?     When you cited Cramer's letter to the editor and Harlow's letter to the editor, those are not original pieces of literature, correct?  A Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q D place A Y Q III citt A I Q III A Y Q W thee of A I Q D exp A I' Q D are	Oo you know if he is a paid expert for the aintiffs?  Yes. In fact, that is a litigation report that you sed, correct? believe so. If you look at Page 44, Number 58?  Yes. When you cite the McDonald paper were you aware ere are paid plaintiff experts who are authors that paper?  MS. PARFITT: Objection.  can see Cramer's name, so yes.  You you know that in 2019 he was a paid plaintiffs' pert?  You aware of that.  You you know that Welch and McDonald and Godleskie also paid plaintiff experts?  MS. PARFITT: Objection.  do not recall those names, no.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. PARFITT: Scott, you may have asked a very simple question. You can't  Q Which is, did you note in the report     MS. PARFITT: Scott, please. Excuse me for one moment.     MR. JAMES: No. You're not going to talk over me. It's my deposition.     MS. PARFITT: You are required under the rules to allow a witness to answer responsively your questions. Choose your questions carefully.     You may complete your answer, Doctor.  A Yes. I just wanted to note that that is on Pages 23 and 24 of my report.     MS. PARFITT: Thank you.  Q Dr. Cote, when my question calls for a yes or no, that is what I'm asking for. Okay?     When you cited Cramer's letter to the editor and Harlow's letter to the editor, those are not original pieces of literature, correct?  A Correct.  Q Did you note in your report when you cited those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q D place A Y Q III citt A I Q III A Y Q W thee of A I Q D exp A I' Q D are	Oo you know if he is a paid expert for the aintiffs?  Yes. In fact, that is a litigation report that you sed, correct? believe so. If you look at Page 44, Number 58?  Yes.  When you cite the McDonald paper were you aware ere are paid plaintiff experts who are authors that paper?  MS. PARFITT: Objection.  can see Cramer's name, so yes.  You you know that in 2019 he was a paid plaintiffs' pert?  You aware of that.  You you know that Welch and McDonald and Godleskiese also paid plaintiff experts?  MS. PARFITT: Objection.  You on trecall those names, no.  Yourn the page. Look at Number 59.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. PARFITT: Scott, you may have asked a very simple question. You can't  Q Which is, did you note in the report     MS. PARFITT: Scott, please. Excuse me for one moment.     MR. JAMES: No. You're not going to talk over me. It's my deposition.     MS. PARFITT: You are required under the rules to allow a witness to answer responsively your questions. Choose your questions carefully.     You may complete your answer, Doctor.  A Yes. I just wanted to note that that is on Pages 23 and 24 of my report.     MS. PARFITT: Thank you.  Q Dr. Cote, when my question calls for a yes or no, that is what I'm asking for. Okay?     When you cited Cramer's letter to the editor and Harlow's letter to the editor, those are not original pieces of literature, correct?  A Correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q D place A Y Q III citt A I Q III A Y Q W thee of A I Q D exp A I' Q D are	Oo you know if he is a paid expert for the aintiffs?  Yes. In fact, that is a litigation report that you ed, correct? believe so. If you look at Page 44, Number 58?  Yes.  When you cite the McDonald paper were you aware ere are paid plaintiff experts who are authors that paper?  MS. PARFITT: Objection.  can see Cramer's name, so yes.  You you know that in 2019 he was a paid plaintiffs' pert?  In aware of that.  You you know that Welch and McDonald and Godleskie also paid plaintiff experts?  MS. PARFITT: Objection.  do not recall those names, no.  Turn the page. Look at Number 59.  Do you see the Johnson study?

D 54	D 56
Page 54  1 Johnson, McDonald and Godleski are paid	Page 56  1 Q Mathematically just under ten percent of the
2 plaintiff's expert?	2 literature pieces that you cite, the primary
3 MS. PARFITT: Objection. Asked and	3 literature, just under ten percent is written by
4 answered.	4 paid plaintiffs' experts.
5 A No.	5 Did you know that?
	6 MS. PARFITT: Objection.
6 MR. JAMES: Actually I had not asked about 7 Johnson yet.	7 A No, I did not know that. But it is not surprising
8 Q For Number 60 do you see the Godleski paper there	8 to me given that especially among epidemiologists
9 again?	9 we publish in large groups.
10 A Yes.	10 Q Does that concern you in any way, yes or no?
11 Q You understand that Godleski is a paid plaintiffs'	11 MS. PARFITT: Objection.
12 expert?	12 A No.
13 MS. PARFITT: Objection.	13 Q Did you note anywhere in your report all of the
14 A Yes.	pieces that I just mentioned were written by paid
15 Q Did you know that before coming here today?	plaintiffs' experts?
16 A I can't say specifically whether or not I did	16 MS. PARFITT: Objection.
17 unless it was disclosed on there, on this	17 A No.
18 publication.	18 Q Would it have been appropriate to note that in
19 Q For Reference Number 64, do you see the Mandarino	19 your report?
20 article?	20 MS. PARFITT: Objection.
21 A I do.	21 A No. These are established scientists with, in
22 Q Do you know if that is a product of a paid	many cases, decades worth of history way before
23 plaintiff's expert?	the talc and ovarian cancer litigation came out
24 MS. PARFITT: Objection.	who have been working in this area really for the
25 A I do not.	25 entirety of their professional lives.
Page 55	Page 57
1 Q For Number 66, the Fletcher paper, do you know if	1 I evaluate their papers the same as I
2 that is the product of a paid plaintiffs' expert?	2 evaluate any other papers in terms of the rigor of
3 MS. PARFITT: Objection. Asked and	3 their approach, the methodologies that they use,
4 answered.	4 the analysis that they do, and the conclusions
5 A Yes, we discussed that earlier.	5 they draw from their results. That is how I
6 Q That is Saed, correct?	6 analyze the papers and how I include them in the
7 A Yes.	7 reports.
8 Q For Number 71, Woolen, are you aware that is a	8 I am more critical of, like I said, the
9 product of a paid plaintiffs' expert?	9 reviews that are not invited reviews that tend to
10 MS. PARFITT: Objection.	just be, you know, open responses or letters to
11 A Yes.	the editor and those sorts of things, which is why
12 Q Are you aware that Smith-Bindman is a paid	12 I included them in the separate section just
13 plaintiffs' expert?	because, again, I feel differently about people
14 A Yes.	who are designing and analyzing their own
15 MS. PARFITT: Objection.	15 independent studies, versus just kind of
16 Q Turn the page to 72, 73, 74, 75, these are the	summarizing, oftentimes in a way that seems to
letters to the editor I was just mentioning.	lack any structure, summarizing their opinions.
18 A Yes.	That is really why I distinguish those
19 Q Do you see those?	separate sections. And it's a different means of
20 A Yes.	20 evaluating them.
21 Q Do you understand all of those letters were	MS. PARFITT: Scott, we have been going
22 written by paid plaintiffs' experts?	22 about an hour. I don't want to interrupt a trend
23 MS. PARFITT: Objection. Asked and	23 or the middle of your questioning.
24 answered.	24 Can we take a break?
25 A Yes.	MR. JAMES: I would like to finish this

Page 58	Page 60
1 line. I have just a couple more.	1 inactivity, hormone therapy duration, talc use on
2 MS. PARFITT: Yes.	2 genital areas, and PID appear to be driving the
3 Q With respect to plausibility, you cited and	3 higher overall distribution"
4 emphasized the Fletcher, the Mandarino, the	4 Do you see that?
5 McDonald and Johnson studies.	5 A Yes.
6 All of those studies are ones we just cited	6 Q You were referring in this paper to talc as an
7 as studies by experts who have been retained and	7 inflammation-related exposure, fair?
8 paid by plaintiffs.	8 A That is correct.
9 Are you aware of that?	9 Q Turn to Page 7, Dr. Cote.
10 MS. PARFITT: Objection.	10 A Yes.
11 A I am.	11 Q Do you see under the Competing Interests section
12 Q Does it concern you that the materials you are	12 it says, "The authors declare no competing
relying on for plausibility are authored by paid	13 interests." Correct?
14 plaintiffs' experts?	14 A Yes.
MS. PARFITT: Objection.	15 Q So you do not have a conflict of interest declared
16 A No. Those are only a subset of the materials that	16 in this paper, correct?
17 I'm relying upon for plausibility. Many of the	17 A Correct.
other papers in there looking at things like the	18 Q You got retained, I think, you told me you were
19 actual talc migration were done in, like,	19 first contacted early 2023. You had those calls
20 retrograde menstruation and some evidence that	we talked about in March of 2023.
21 there is, you know, this bidirectional flow, those	21 The byline of this paper says it was received
were done years, decades in the 1950s prior to any	March 2023, revised July 2023, accepted July 2023
23 of this talc litigation.	23 and published August of 2023.
24 Q Okay.	Do you see that?
25 MR. JAMES: Let's take a break.	25 A Yes.
Page 59	Page 61
1 (OFF RECORD AT 10:06 A.M.)	1 Q So this paper came out after you were retained,
2 (AT THIS TIME A SHORT RECESS WAS HELD OFF	2 correct?
3 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	3 MS. PARFITT: Objection.
4 WERE HAD:)	4 A No. No, it did not. I did not really take on
5 (ON RECORD AT 10:13 A.M.)	5 this work, as you can see from my invoices, until
6 BY MR. JAMES:	6 really into September.
7 Q Are you ready to go?	7 Q You were invoicing for time for which you got paid
8 A Yes.	8 by plaintiffs' counsel as early as March 2023,
9 Q In 2023 you authored a paper entitled Association	9 correct?
10 of Inflammation Related Exposures.	10 A But I had not formed any opinion.
Do you recall that article?	11 Q But you were still serving as an expert, correct?
12 A No. I would like to see it.	MS. PARFITT: Objection. Misstates her
13 Q Of course. I will mark that as Exhibit Number 4.	13 testimony.
14 (EXHIBIT NUMBER 4 WAS MARKED FOR	14 A No. I was reviewing the literature, but I was not
15 IDENTIFICATION.)	15 yet engaged as an expert, no.
16 A Oh, yes. The survivor study.	16 Q Okay. So by August 2023 had you reached the
17 Q Again, this is a paper that you are an author on?	17 opinion that talc causes cancer?
18 A Correct.	18 A No. You will note from my invoicing that pretty
19 Q This articles includes multiple references to	much over the summer I did, you know, very little,
20 talc, correct?	20 very little work in this area.
21 A It does.	21 Q So your position is that you did not need to
22 Q Look at Page 5 of the article, left column, bottom	declare a conflict of interest because you had not
23 paragraph.	reached a general causation opinion by the time
24 A Yes.	24 this paper published, correct? 25 A Yes.
25 Q It says, "Characteristics such as physical	23 A 158.

	Page 62		Page 64
1	Q If you published this paper this year would you	1	A No, I do not.
2	issue a conflict of interest statement?	2	Q Do you think the readers of this paper are
3	A Yes.	3	entitled to know that one of the authors was
4	Q That is because one of topics in the paper is a	4	working as a paid expert at the time that this
5	topic on which you comment in your litigation	5	paper came out?
6	report, correct?	6	MS. PARFITT: Objection. Misstates her
7	MS. PARFITT: Objection. Form.	7	responses.
8	A You said one of the topics in the paper.	8	A I did not create this index. I was, I am not a
9	Q Sure.	9	primary person on this. And in my mind I had not
10	A What are you referring to?	10	yet reached an opinion as to whether or not talc
11	Q I will do a better job.	11	can cause ovarian cancer, which is a very
12	Again, you were referring in this paper to	12	different question than whether talc is associated
13	talc as an inflammation-related exposure, is that	13	with poor survival or improved survival, for that
14	correct?	14	point, after an ovarian cancer diagnosis.
15	A Yes, but not in the sense of exposure in terms of	15	So we are looking at a very different
16	something that initiates disease. This is a very	16	outcome.
17	different outcome we are looking at.	17	
18	This is ovarian cancer survival. I should	18	Epidemiology Study Group, correct?
19	also note that this paper is actually kind of a		A Correct. It's not really a study group. It was a
20	replication of a study. This is all	20	grant. It is a grant, yes.
21	African-American or Black women. This paper is a	21	Q Are there any plans with the AACES to do further
22	replication study.	22	studies on talc?
23	The entire inflammatory index and everything	23	1 3
24 25	was developed not by me personally. There may have been some of the other authors on the	24 25	we have shifted is from looking at incidence of
23		23	disease or etiology of disease, which some of the
1	Page 63		Page 65
1	original paper. But it is this I'm sorry	1	earlier papers like the Schildkraut 2016 paper
3	her name is Catherine I have to find it again. B-R-I-E-G-E-R. That is Reference Number 13.	2	into survivorship issues. This paper here more or
4	And actually Number 14 is the one where she	3	less captures kind of a more comprehensive way to examine inflammation.
5	developed this inflammation-related risk score.	5	So I do not I have not heard that anybody
6	So what we did was that study was in primarily	6	is interested in doing anything talc specific in
7	White women.	7	
8	We took that risk score and tried to apply it	8	this group.  Q Again, for this Johnson study in your report you
9	to our African-American case control study.	9	do comment on talc as an inflammation-related
10	Q Regardless, you would agree that if you wrote thi		exposure, both for the initiation and the
11	paper today you would include a conflict of	11	progression of ovarian cancer, right?
12	interest disclosure, correct?		A It can be potentially, yes. I'm not sure where I
13	A Yes.	13	say that in the report.
14	Q And do the co-authors of this paper know that you		
15	are doing work for plaintiffs on the talc		A Potentially it can be. But I've not done a
16	litigation?	16	systematic review looking at progression,
17	MS. PARFITT: Objection to form.	17	recurrence, cancer specific survival.
18	A No, I don't believe so.	18	
19	Q Is there some sort of mechanism that would allow		you are now doing paid expert work for the
	you to contact the Journal to allow you to add the	20	plaintiffs in the talc litigation?
20	disclosure in the online version?		A Yes, I'm comfortable to do so.
20 21			
		22	Q You will do so if you write any more papers on
21	A I don't know. I have never thought about it. If	22 23	Q You will do so if you write any more papers on issues relevant to the litigation, fair?
21 22		23	issues relevant to the litigation, fair?  A Fair.

	P. ((		D 60
1	Page 66 papers that assess the association between talc	1	Page 68 and I guess Johnson have you ever given any
2	and ovarian cancer?	2	presentation, speeches, or lectures concerning
3	A Ovarian cancer incidence meaning?	3	talc and ovarian cancer or asbestos and ovarian
4	Q Yes.	4	cancer?
5	A No, that is it.	5	A No, I have not.
6	Q Have you authored any other papers other then	6	Q Have you ever given any statements or interviews
7	Schildkraut and Johnson that assess an association	7	related to talc and ovarian cancer or asbestos and
8	between talc and ovarian cancer in any way?	8	ovarian cancer?
9	A No.	9	A No, I have not.
10	Q Have you submitted any portion of your litigation	10	Q Have you ever authored any internet postings or
11	report or the substance of your litigation report	11	blogs related to talc and ovarian cancer or
12	for peer review?	12	asbestos and ovarian cancer?
13	A No.	13	A No, I have not.
14	Q Do you intend to work on any articles related to	14	Q Have you ever prepared or used any teaching
15	talc?	15	materials for your students or in your
16	A Do I intend to work on any articles related to	16	professional life concerning talc and ovarian
17	talc?	17	cancer or asbestos and ovarian cancer?
18	Q I can be more specific.	18	A No, I don't believe so.
19	A Yes, please.	19	Q Okay. And when I think of teaching materials, I
20	Q Do you intend to work on any articles related to	20	think of things like slides or PowerPoints or
21	talc and ovarian cancer?	21	charts.
22	A At this point in time I am mostly interested in	22	Is there anything like that that you have
23	publishing novel data and novel analyses. So I	23	done in your professional history?
24	don't have any specific plans to we are not	24	
25	going to develop a new cohort or case control	25	Q Have you ever talked with any health care
	Page 67		Page 69
1	study that is going to be able to address this	1	professionals to tell their patients to stop using
2	question in a meaningful way. So, no, I don't	2	talc?
3	believe I will.	3	MS. PARFITT: Objection. Form.
4	Q If you did so, you would declare a conflict of	4	A No, I have not.
5	interest, correct?	5	Q Have you ever suggested to a health care
	A Yes.	6 7	professional that they assess a patient's risk for
8	Q You believe that would be the proper thing to do for any expert working in talc litigation to	8	ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection to form.
9	declare a conflict of interest on a paper?	9	A No, I have not. I came to this conclusion about
10	MS. PARFITT: Objection.	10	four months ago.
11	A I can only speak personally what I would do.	11	I'm trying to think if I have even interacted
12	Q You would personally be governed by the disclosure	12	with any sort of clinical professional in the last
13	requirements of the Journal as well?	13	four months. I don't think I have.
1	A Correct. They all have different requirements.	14	
15	Q As a scientist you can understand how working in a	15	care professionals to suggest that they consider
16	litigation as a paid expert could be perceived as	16	offering risk reducing surgeries for prior talc
17	a conflict of interest, correct?	17	users?
18	MS. PARFITT: Object to form.	18	A No.
19	A Yes, I understand it can be perceived as a	19	Q Have you ever talked to any health care
20	conflict of interest. That is why we do list	20	professionals to encourage them to use additional
21	them.	21	screening or monitoring for ovarian cancer based
22	Q Have you ever authored any papers on asbestos and	22	upon prior talc usage?
23	ovarian cancer?	23	A No.
24	A No, I've not.	24	Q Have you ever talked with any, or had any
25	Q Have you ever given any outside of Schildkraut	25	communications with any public health agencies or
24	A No, I've not.	24	Q Have you ever talked with any, or had any

	D 70		D 70
1	Page 70 scientific or medical organizations or regulatory	1	Page 72  Q Have you ever discussed the topic of talc and
2	bodies about tale and ovarian cancer or asbestos	2	ovarian cancer with anyone at Komen?
3	and ovarian cancer?	3	A No.
4	MS. PARFITT: Objection. Compound.	4	Q I'm shorthanding that. We are discussing Susan G.
5	A No. No to both.	5	Komen, correct?
6	Q In your report you state that certain prophylactic	6	A Correct. Yes.
7	surgeries or procedures can be offered as a risk	7	Q Do you have an opinion on the number of ovarian
8	reduction strategy for women who have known	8	cancer cases diagnosed per year that you believe
9	inherited mutations, right?	9	could be attributed to talc usage?
10	A Correct.	10	
11	Q Are you aware of any health care institution or	11	These were estimates provided by Wu. He was
12	physician or organization that counsels on or	12	looking at three different populations.
13	recommends prophylactic surgeries as a means of	13	He was looking African-American the same
14	risk reduction for cancer for prior talc users?	14	population in California, but African-American
15	A I'm unaware of any. But, again, I also have not	15	women, Hispanic women, and non-Hispanic White
16	asked that question.	16	women. He came up with estimates of population
17	Q Okay. Are you aware of any health care	17	attributable risk, which essentially means if you
18	institution or organization that counsels or	18	removed said exposure from the population it would
19	recommends additional cancer screenings for prior	l .	reduce the number of cases by a certain number.
20	talc users?	20	He quoted for those three different
21	A I'm unsure what kind of screening you would be	21	populations between about twelve and
22	referring to because there is not really	22	fifteen percent reduction. So, you know, if you
23	population-based broad screening for ovarian	23	look at, you know, I have to do hard math, you
24	cancer.	24	know, if you were going to say, like, there's
25	So there is really no screening to even	25	approximately 12,000 cases every year, you could
	<u> </u>		3 3 7 3 7 3
	Page 71		Page 73
1	Page 71 offer.	1	Page 73 say that somewhere between 1,200 and perhaps 1,500
1 2	offer.		say that somewhere between 1,200 and perhaps 1,500
2	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that	f 2	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.
2 3	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?	f 2	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect
2 3 4	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that	f 2 3 4	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you
2 3 4 5	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?  That recommends additional screening or	f 2 3 4 5	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.
2 3 4 5 6	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior	f 2 3 4 5 6	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something
2 3 4 5 6 7	offer.  Q And just to wrap that up. Again, are you aware or anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?	f 2 3 4 5 6 7	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?
2 3 4 5 6 7 8	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection. Form.	f 2 3 4 5 6 7 8	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?  A Well, I have never done those calculations myself.
2 3 4 5 6 7 8 9	offer.  Q And just to wrap that up. Again, are you aware o anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection. Form.  A No, I'm not.	f 2 3 4 5 6 7 8	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?  A Well, I have never done those calculations myself. You know, using data from our AACEs study, for
2 3 4 5 6 7 8 9 10	offer.  Q And just to wrap that up. Again, are you aware or anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection. Form.  A No, I'm not.  Q Are you aware of any health care institution or	f 2 3 4 5 6 7 8 9 10	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?  A Well, I have never done those calculations myself. You know, using data from our AACEs study, for example, population attributable risk includes
2 3 4 5 6 7 8 9 10	offer.  Q And just to wrap that up. Again, are you aware or anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection. Form.  A No, I'm not.  Q Are you aware of any health care institution or physician or medical or scientific organization	f 2 3 4 5 6 7 8 9 10	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?  A Well, I have never done those calculations myself. You know, using data from our AACEs study, for example, population attributable risk includes exposure, like, the percent exposed in the
2 3 4 5 6 7 8 9 10 11 12	offer.  Q And just to wrap that up. Again, are you aware or anyone who, any organization or institution that recommends doing so?  That recommends additional screening or monitoring for ovarian cancer based upon prior talc usage?  MS. PARFITT: Objection. Form.  A No, I'm not.  Q Are you aware of any health care institution or physician or medical or scientific organization that inquires about patient's prior talc usage to	f 2 3 4 5 6 7 8 9 10 11 12	say that somewhere between 1,200 and perhaps 1,500 or 1,600, and excuse me if my math is not perfect there, that would be attributable to talc.  If you removed talc from the population you would remove that on an annual basis.  Q Do you hold that opinion, or is that something that you just read?  A Well, I have never done those calculations myself. You know, using data from our AACEs study, for example, population attributable risk includes exposure, like, the percent exposed in the population is a very big component of that.
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	Page 74		Page 76
1	in this litigation has attributed between 2,300	1	population.
2	and 6,500 ovarian cancer cases a year to talc	2	To me that would be maybe at the end of the
3	usage?	3	range, but not wildly outside of it.
4	Are you aware of that, yes or no?	4	Q Sitting here today, have you calculated an
5	MS. PARFITT: Objection.	5	attributable risk for ovarian cancer?
6	A Can you tell me what years that was from?	6	A I've not, no.
7	Ovarian cancer has been decreasing slightly	7	Q Your Appendices A is your C.V., correct, to your
8	in the community. Talc use has been decreasing	8	report?
9	substantially in the community.	9	A I believe so. I'm there.
10	So I'm wondering what years those were quoted	10	Q I see that from 2016 to 2022 you were the
11	from?	11	associate center director for cancer research at
	Q Let me just rephrase the question.	12	Karmanos, correct?
	A Okay.		A Cancer research training and education was the
	Q Based upon 2023 diagnoses for ovarian cancer, do	14	final name of that. Yes. It's very different
	you think it's in any way scientifically valid to		•
15		15	than for just cancer research.
16	claim that between 2,300 and 6,500 cases of	16	This was more about mentoring junior faculty
17	ovarian cancer a year are attributable to talc	17	and all levels of trainees to make sure that they
18	usage?	18	had the things that they needed to succeed in a
19	MS. PARFITT: Objection. Form.	19	faculty role.
	A Again, you know, based on we don't have data	20	Q Did you ever teach at Karmanos on talc and ovarian
21	really for talc use in the population in 2023. We	21	cancer?
22	don't have, you know, we are not talking about the	22	A I taught at Wayne State University.
23	breakdown by race and ethnicity. I think there	23	Q Okay.
24	was some discussion that Black women are more	24	A I taught introductory classes in epidemiology. I
25	likely to use talc. Those numbers are not outside	25	never specifically taught on talc and ovarian
	Page 75		Page 77
1	of the ballpark. No.	1	cancer, no.
2	Q Do you think there is any consensus in the medical	2	Q At either Wayne State or Karmanos, is that
3	and scientific community that up to 6,000 cases of	3	correct?
4	ovarian cancer diagnosed every year are	4	A Correct. But Karmanos is not a teaching
5	attributable to talcum powder?	5	institution in that regard, like, didactic
6	MS. PARFITT: Objection. Asked and	6	teaching.
7	answered.	7	Q Are you aware you were at Karmanos for a lon
8	A Again, you know, 6,000, so that out of the, you	8	time, correct?
9	know, between 12,000 and 13,000 that will	9	A Correct. Over twenty years.
10	probably, you know, be diagnosed, I know they were	10	Q Are you aware of whether Karmanos maintains a
11	diagnosed in 2023 but we don't really have those	11	public-facing webpage to provide information and
12	data complete yet, saying that almost fifty	12	resources on ovarian cancer?
13	percent would be attributable to talc or could be	13	A I'm not aware as to whether or not they do.
14	if talc were removed, you know, from the	14	Q Is that something that you have ever looked at?
15	population that we would not have seen those	15	A Have I looked at the Karmanos website for that,
16	cases, I don't believe that there is consensus.	16	no.
		17	(EXHIBIT NUMBER 5 WAS MARKED FOR
17	But I think the other consideration is just	18	IDENTIFICATION.)
18	not just what is going on in the U.S. but what is		•
19	going on worldwide. Certainly, worldwide those	19	Q I will hand you what I have marked as Exhibit
20	numbers would be absolutely valid.	20	Number 5.
	Q My question specifically is about the	21	You can see that is a document titled,
21		22	Ovarian Cancer Treated at Karmanos.
21 22	United States.		D 4 10
21 22 23	A Okay. No. Again, we don't have those data. We	23	Do you see that?
21 22			-

	Page 78		Page 80
1	A No, not that I recall.	1	sections on What is ovarian cancer? Who can get
2	Q If you flip to the second page you can see it	2	ovarian cancer? The symptoms, and then on the
3	identifies the gynecologic oncologists that treat	3	third page, How do I lower my risk for ovarian
4	ovarian cancer, correct?	4	cancer?
5	A Correct. Yes. And other female cancers, sure.	5	Do you see that?
6	Q We see here on the first page under Treatment of	6	A Yes, I do.
7	Ovarian Cancer that Karmanos refers to information	7	Q Is this a page that you have seen before?
8	from the National Cancer Institute.	8	A No, it's not.
9	Do you see that on the first page?	9	Q And you can see under the section, Who can get
10	A Sure. Yes.	10	ovarian cancer, if you flip to the second page, do
11	Q It says, "Includes information about ovarian	11	you see they list risk factors?
12	cancer, causes, risk factors, diagnosis and	12	A They list some of the risk factors, yes.
13	treatment."	13	Q Is talc mentioned there?
14	Do you see that?	14	A No. Talc is not mentioned there, but neither is
15	A I do.	15	something like obesity.
16	Q And when you click on that link it links you to	16	Q But talc is not mentioned?
17	the NCI PDQ.	17	A Correct, it's not. But it does not appear to be a
18	Are you aware of that?	18	comprehensive list of things that might increase
19	A I would assume that is where it goes. Yes, I know	19	your risk.
20	the PDQ.	20	In fact
21	Q Do you think Karmanos' decision to links its	21	Q Are you critical of the information that Karmanos
22	patients to the NCI PDQ for information on ovarian	22	puts out?
23	cancer causes and risk factors in a scientifically	23	A I go back to the statement that I have not
24	sound decision?	24	reviewed this until just now. I don't know the
25	MS. PARFITT: Objection.	25	process they use for getting this. Yes, it
	Page 79		Page 81
1	A Scientifically sound decision? I can't really	1	appears to me one of the biggest factors here that
2	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound	2	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2
2 3	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound decision because I don't know the science or the	2 3	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2 mutation or Lynch syndrome.
2 3 4	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound decision because I don't know the science or the methodology behind how the NCI pulls all of these	2 3 4	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2 mutation or Lynch syndrome.  They talk about family history. They don't
2 3 4 5	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound decision because I don't know the science or the methodology behind how the NCI pulls all of these data together.	2 3 4 5	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2 mutation or Lynch syndrome.  They talk about family history. They don't specify that. So I would say that this list is
2 3 4 5 6	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound decision because I don't know the science or the methodology behind how the NCI pulls all of these data together.  I can't give an opinion as to whether or not	2 3 4 5 6	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2 mutation or Lynch syndrome.  They talk about family history. They don't specify that. So I would say that this list is incomplete.
2 3 4 5 6 7	A Scientifically sound decision? I can't really judge whether or not it is a scientifically sound decision because I don't know the science or the methodology behind how the NCI pulls all of these data together.  I can't give an opinion as to whether or not it's scientifically sound.	2 3 4 5 6 7	appears to me one of the biggest factors here that they don't mention is knowledge of a BRCA1 or 2 mutation or Lynch syndrome.  They talk about family history. They don't specify that. So I would say that this list is incomplete.  Q Do you think the person who put this together at
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	D 00		D 01
1	Page 82 You can't recall when you start menstruation.	1	Page 84  Q It says it is quoting Dr. Winer. "The
2	You can't control your family history. To some	2	available data specific to talc is still
3	extent you can't control whether or not you have	3	questionable."
4	children or how many.	4	Do you see that?
5	So it's interesting that the focus here	5	A I do.
6	really just looked at non-modifiable risk factors.	6	Q He says, "Some epidemiologic studies show an
7	Q And if you look at Page 3 you can also see there	7	increase in risk with talc usage while others fail
8	are references to how I lower my risk factors.	8	to demonstrate this association. Many of these
9	There is references there to oral contraceptives	9	studies have significant sources of bias which
10	and breast feeding, correct?	10	could potentially call the studies' conclusions in
l	A Correct.	11	question."
11		12	-
12	Q As well as tubal ligation?		Do you see that?
13	A Correct.	13	A I do, yes.
14	Q When you were at Karmanos and Wayne State were you		
15	ever a member of the Gynecologic Oncology Multiple	15	largest prospective observational studies, the
16	Disciplinary Team?	16	Women's Health Initiative and Nurses Health Study,
	A No, I was not.	17	did not show a definitive link."
18	Q Was that a team that you are familiar with?	18	Do you see that?
19	A It is.	19	A I do, yes.
20	Q Do you know Dr. Ira Winer?	20	Q Do you agree with Dr. Winer's comment at least in
21	A I do know Dr. Winer, yes.	21	2016 that the data specific to talc was
22	Q Have you ever	22	questionable?
	A We published a paper together.	23	MS. PARFITT: Objection to form.
24	Q Have you ever talked with him about talc and	24	A I don't necessarily agree with that, no. I would
25	ovarian cancer?	25	disagree with that statement.
	Page 83		Page 85
1	A No, I don't believe we have.	1	Q Do you agree with Dr. Winer's comment in 2016 that
2	Q Were you ever involved at Karmanos in the	2	many of these studies have significant sources of
3	publication of a newsletter or a document titled	3	bias?
4	Hope?	4	MS. PARFITT: Objection. Form.
5	A No, not that I'm aware of.	5	A Again, because I don't know what types of bias he
6	Q Have you ever reviewed an edition of Hope	6	is referring to or even what studies he is
7	regarding to talc and ovarian cancer?	7	referring to I would say no. I would not support
8	A Not in my memory, no.	8	that statement.
9	Q I will mark this as Exhibit Number 7.	9	Q Okay. Turn to Page 2.
10	(EXHIBIT NUMBER 7 WAS MARKED FOR	10	You can see there is a photograph of
11	IDENTIFICATION.)	11	Dr. Winer.
12	Q This is a publication titled Hope from Karmanos.	12	Do you see that?
13	You can see Exhibit 7 is titled, "The Truth	13	A Yes.
14	About Talc. Does it cause ovarian cancer?"	14	Q At the bottom of that first paragraph in the last
15	Do you see that?	15	sentence he says this is a statement he has
16	A I do.	16	authored.
17	Q This is from August 2016, is that correct?	17	Do you see his signature?
18	A That is true.	18	A Yes.
19	Q When was the last time you talked with Dr. Wine	r 19	Q He says, "As an ovarian cancer researcher and
20	about anything?	20	gynecologic oncology specialist, I can say that
21	Was it before you left?	21	the current data is mixed and that even if there
22	A Probably before then.	22	is a potential link, the absolute risk to any
23	Q Understood. If you look at Page 1 at the bottom	23	individual woman is likely small. More definitive
24	column the left column, bottom left.	24	studies are needed from a biologic and population
25	A Yes.	25	standpoint."

	Page 97		D 00
1	Page 86 Do you see that?	1	Page 88 question.
	A Yes.	2	You can see here below that, like Karmanos,
	Would you agree with Dr. Winer's comment in 2016	3	the AACR is linking to the NCI PDQ for ovarian
4	that the current data is mixed?	4	cancer prevention, correct?
5	MS. PARFITT: Objection.	5	A Yes, that is correct.
	A No. I believe that the epidemiologic evidence	6	Q Do you believe that the AACR is wrong in linking
7	even in 2016 was fairly consistent and strong. I	7	its audience to the NCI PDQ for information on
8	would not say it was overly mixed.	8	ovarian cancer?
	Q Would you agree with Dr. Winer's comment in 2016	9	MS. PARFITT: Objection.
10	that the absolute risk to any individual woman is	10	
11	likely small?	11	right or wrong in terms of what they choose to
12	MS. PARFITT: Objection.	12	link to.
	A I would say that tale is a modifiable risk factor	13	Q You have significant ties to the NCI, correct?
14	that, as Dr. Winer knows better than I, is an	14	MS. PARFITT: Objection.
15	absolutely devastating disease for women and	15	A Define significant.
16	families. Cancer happens to individuals, but it	16	Q Sure. I see from your C.V. that you have been a
17	affects the family and it affects the community.	17	reviewer for the NCI, correct?
18	Any increase in risk, whether it is small	18	A Yes.
19	with respect to a product that does not have any	19	Q You have chaired at least two NCI committees,
20	sort of medicinal benefit, that it is not small.	20	correct?
21	So I would disagree there, too. That	21	A Yes.
22	absolute risk to any individual is likely small is	22	Q You have served as editor and a manuscript
23	perhaps his opinion.	23	reviewer for the JNCI, correct?
24	But I think, further, it would it's an	24	A Yes. The JNCI specifically says that they are not
25	avoidable risk.	25	a Journal of the National Cancer Institute. They
	Page 87		Page 89
1 (	Q I see from your C.V. you are also affiliated with	1	consider themself distinct entities.
2	the AACR, correct?	2	Q My shorthand was incorrect.
1	A Yes. I'm a long-time member of AACR.	3	The Journal of the National Cancer Institute,
4 (	Q Are you aware that the AACR maintains a	4	correct?
5	public-facing page to provide patients information	5	A Yes.
6	about ovarian cancer?	6	Q That is what it's called?
	A I don't believe I have ever looked at that page,	7	A It is. But look at their footnotes. They say
8	no.	8	that they are independent of the National Cancer
	Q I will mark the AACR page titled Ovarian Cancer as	9	Institute.
10	Exhibit Number 8.	10	, ,
11	(EXHIBIT NUMBER 8 WAS MARKED FOR	11	when I said J.
12	IDENTIFICATION.)	12	You note in your report that you have been
	Q Dr. Cote, is this a page or a website that you	13	supported by the NCI. You have reviewed programs
14	have ever seen before?	14	for the NCI. You have sat on panels for NCI
	A No. I have not seen this simply because this is	15	designated comprehensive cancer centers, correct?
16	not where I go for my research information.		A Yes.
1	Q Do you understand that this is put out by the AACR	17	Q Do you hold the NCI in high regard?
18	to provide resources to patients and the like,	18	A Yes.
19	correct?	19	Q Do you consider the NCI to be a highly respected
20	MS. PARFITT: Objection.	20	cancer research organization?
$\begin{vmatrix} 21 & 1 \\ 22 & 1 \end{vmatrix}$	A I understand that AACR has this website. What the	21 22	A I believe that NCI does some outstanding research,
22 23	goal is I'm not sure. I note that the source of	23	but they are also a government organization. They have kind of got two branches, an intermural and
23	this is the National Cancer Institute, which is fairly broad.	23	extramural.
1	Q As you can see that transitions to my next	25	Their intermural researchers do cancer
	2 715 you can see that transitions to my next	23	Then intermutal researchers do cancer

	P 00		P 00
1	Page 90 research and I have high regard for many of my	1	Page 92 MS. PARFITT: If you need to reference
2	colleagues there. The external branch is more of	2	your documents, you may.
3	a, they facilitate and fund scientific research	3	A "Results from case control and covert studies are
4	all around the country and, in fact, the world.	4	inconsistent."
5	So there are kind of two different branches	5	Q On the prior, without I'm not trying to put the
6	when you talk about NCI. There is one that is	6	report in your mouth. Just the document in front
7	more research. There is one that more funds	7	of you, if you can see the PDQ, whether you agree
8	research. That research is vetted by the study	8	with it or not.
9	sections and things that we do.	9	A Correct.
10	So it's two different things. I do think for	10	Q Here you can see on the prior page there is a
11	the discussion here that they are both highly	11	title Factors with Inadequate Evidence.
12	regarded as mechanisms for funding, as well as for	12	Do you see that?
13	scientific research, yes.	13	A Yes.
14	Q Do you believe that information made available to	14	Q You can see that following this section there are
15	the public by the NCI and linked by Karmanos, by	15	a number of factors listed.
16	the AACR, and by other organizations that we hav	e16	Perineal talc exposure is in that bucket,
17	looked at, do you believe that information made	17	fair?
18	available by the NCI can be trusted by health care	18	A Fair.
19	professionals and patients as credible	19	Q You can see here, and you just mentioned it, that
20	information?	20	the NCI PDQ reports that "Results from case
21	MS. PARFITT: Objection to form.	21	control and cohort studies are inconsistent, so
22	A I believe it does contain some credible	22	the data are inadequate to support an association
23	information. I also believe, just as I mentioned	23	between perineal talc exposure and an increased
24	with some of the Karmanos documents that we	24	risk of ovarian cancer."
25	showed, that the information is sometimes	25	Did I read that correctly?
1	Page 91 incomplete.	1	Page 93 A You read that correctly, yes.
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q I will mark as Exhibit Number 9 the NCI PDQ.	2	Q I understand you disagree with the NCI, correct?
3	(EXHIBIT NUMBER 9 WAS MARKED FOR	3	MS. PARFITT: Objection to form.
4	IDENTIFICATION.)	4	A I disagree with the NCI with respect to this
	A Yes.	5	particular statement, yes.
6	Q As you mentioned, you do discuss this document in	6	Q Fair enough. Do you question the objectivity and
7	your report, correct?	7	the scientific credibility of the panel and board
8	A Correct.	8	members who compiled this PDQ document?
	O. We see how this is the DDO dedicated to evenion		
9	Q We see here this is the PDQ dedicated to ovarian	9	MS. PARFITT: Object to form.
9	cancer prevention, correct?	10	MS. PARFITT: Object to form.  A I don't necessarily question their objectivity or
			· ·
10	cancer prevention, correct?	10	A I don't necessarily question their objectivity or
10 11	cancer prevention, correct?  A Yes.	10 11	A I don't necessarily question their objectivity or their qualifications. I just know nothing about
10 11 12	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if	10 11 12 13 14	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I
10 11 12 13	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.	10 11 12 13 14 15	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they
10 11 12 13 14	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.	10 11 12 13 14 15 16	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The
10 11 12 13 14 15	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar	10 11 12 13 14 15 16 17	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So
10 11 12 13 14 15 16 17 18	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal	10 11 12 13 14 15 16 17 18	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.
10 11 12 13 14 15 16 17 18	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate	10 11 12 13 14 15 16 17 18 19	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected
10 11 12 13 14 15 16 17 18 19 20	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?	10 11 12 13 14 15 16 17 18 19 20	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected just these seven out of the four decades' worth of
10 11 12 13 14 15 16 17 18 19 20 21	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?  A I will assume that is correct. Let me look at my	10 11 12 13 14 15 16 17 18 19 20 21	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected just these seven out of the four decades' worth of research.
10 11 12 13 14 15 16 17 18 19 20 21 22	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?  A I will assume that is correct. Let me look at my report.	10 11 12 13 14 15 16 17 18 19 20 21 22	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected just these seven out of the four decades' worth of research.  So I don't understand their methods so I
10 11 12 13 14 15 16 17 18 19 20 21 22 23	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting  Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?  A I will assume that is correct. Let me look at my report.  Q I can rephrase the question. If you just look at	10 11 12 13 14 15 16 17 18 19 20 21 22 23	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected just these seven out of the four decades' worth of research.  So I don't understand their methods so I don't feel like I can really comment on whether I
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	cancer prevention, correct?  A Yes.  Q And if we look at, this is not paginated, but if you go about four pages before the end.  A Yes. I assume you are wanting Q The Perineal Talc Exposure.  A Got it.  Q Again, from your report I can see you are familiar with the fact that the PDQ identifies perineal talc exposure as a factor with an adequate evidence of an association, correct?  A I will assume that is correct. Let me look at my report.	10 11 12 13 14 15 16 17 18 19 20 21 22	A I don't necessarily question their objectivity or their qualifications. I just know nothing about their methodology for how they came to these conclusions.  Because when I look at this, you know, and I see their references here for this section, they only have a total of fourteen references. The ones that are specific to talc are only seven. So only maybe yeah, seven.  So it's very unclear to me how they selected just these seven out of the four decades' worth of research.  So I don't understand their methods so I

	Page 94		Page 96
1	Q Are you suggesting that the NCI PDQ panel and	1	Do you acknowledge that they cite the Woolen
2	board members only considered these seven items?	2	article?
3	MS. PARFITT: Objection. Form.	3	A They do, yes, they do cite Woolen. But they do
4	A I have no idea what they considered and what went	4	not cite Phung.
5	into forming, you know, their opinion here because	5	Q Phung is the article you discussed earlier as
6	there are not any specifics about how they came to	6	related to endometriosis?
7	this conclusion outside of these references.		A Correct. Yes.
8	Q Have you looked at the history of the PDQ document	8	Q Then at the bottom of the page that says Latest
9	to see if the PDQ has referred to additional	9	Updates, do you see that?
10	literature along the way?	10	A Yes.
11	A I've not gone back in time and looked at the	11	Q That is the second to the last page.
12	history. I'm not sure how I would do that being	12	It says, "Board members review recently
13	that things are updated.	13	published articles each month"
14	Q Are you questioning the thoroughness of the	14	Do you see that?
15	NCI PDQ panel members in reviewing the literature	15	A I do.
16	and commenting on the association between talc and	16	Q Do you have any reason to question that?
17	ovarian cancer?	17	MS. PARFITT: Objection. Form.
18	MS. PARFITT: Objection.	18	A I have no reason to question whether or not or
19	A I'm questioning the methodology used because it's	19	when they review or their schedule of review, no.
20	unclear. I'm not questioning the reviewers, their	20	Q Do you have any reason to disagree with the
21	expertise.	21	statement that changes to the summary are made
22	Q If you can look to the second to last page with	22	through consensus process in which board members
23	me, Dr. Cote.	23	evaluate the strength of the evidence and
	A Yes.	24	published articles?
	Q At the top of the page it says Latest Updates.	25	MS. PARFITT: Objection.
	Page 95		Page 97
1	Do you see that?	1	
2	A Yes.	2	does not occur.
3	Q Excellent. We see here that it says the summary	3	Q Do you have any reason to question that the board
4	was most recently updated on March 6, 2024,	4	makes determinations on how or whether articles
5	correct?	5	should be included in the summary?
6	A Correct.	6	MS. PARFITT: Objection. Form.
7	Q This is a couple weeks ago, correct?	7	A I still question how they come to that decision.
8	A Yes. Correct.	8	They don't describe where they find, you know
9	Q You see below here that under the Reviewers and	9	they just say recently published articles each
10	Updates section it says, "This summary is reviewed	10	month. They don't describe who brings those
			monum they don't deserree who crimgs mose
11	regularly and updated as necessary by the PDQ	11	articles. They don't describe, you know, really
11 12	regularly and updated as necessary by the PDQ Screening and Prevention Editorial Board."	11 12	articles. They don't describe, you know, really
	regularly and updated as necessary by the PDQ Screening and Prevention Editorial Board."  Did I read that correctly?		-
12	Screening and Prevention Editorial Board."	12	articles. They don't describe, you know, really any process for identification of those.
12 13	Screening and Prevention Editorial Board."  Did I read that correctly?	12 13	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature,
12 13 14	Screening and Prevention Editorial Board." Did I read that correctly? A Yes. Q Do you have any reason to question whether or not	12 13 14	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that
12 13 14 15	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.	12 13 14 15	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of
12 13 14 15 16	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.	12 13 14 15 16	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly
12 13 14 15 16 17	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?	12 13 14 15 16 17	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary
12 13 14 15 16 17 18	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.  A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.	12 13 14 15 16 17 18	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.  So I can't imagine that they are on a monthly
12 13 14 15 16 17 18 19	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.  A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.  Q You do understand that they cite the most recent	12 13 14 15 16 17 18 19	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.
12 13 14 15 16 17 18 19 20	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.  A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.  Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian	12 13 14 15 16 17 18 19 20	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.  So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not
12 13 14 15 16 17 18 19 20 21	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.  A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.  Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian cancer, correct?	12 13 14 15 16 17 18 19 20 21	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.  So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not considering.
12 13 14 15 16 17 18 19 20 21 22	Screening and Prevention Editorial Board."  Did I read that correctly?  A Yes.  Q Do you have any reason to question whether or not the summary is reviewed regularly?  MS. PARFITT: Objection. Form.  A Again, I guess I would ask, what is regularly? I don't have any idea what their methodology is.  Q You do understand that they cite the most recent meta-analysis on the topic of talc and ovarian	12 13 14 15 16 17 18 19 20 21 22	articles. They don't describe, you know, really any process for identification of those.  You know, I mean, the amount of literature, and this is not just for talc, but for all of these other, all of these other risk factors that they look at, it is fairly, the amount is fairly large, would be my guess, in terms of dietary studies and those sorts of things.  So I can't imagine that they are on a monthly basis reviewing absolutely everything. There is no clarity here about what they are and are not

	Page 98			Page 100
1 and	Phung not. I don't know.	1		Do you see that?
	understand the NCI PDQ is not a document akin	2	A	I do.
3 to th	e litigation report that you offered that is	3	Q	As you scroll through that, do you see any
4 sixty	pages or forty pages long?	4		reference to talc?
5 Y	ou understand that, correct?	5	A	I do not.
6	MS. PARFITT: Objection. Form.	6	Q	Do you think the WCRF is wrong not to list talc
7 A I'm	well aware that this document is really put	7		here?
8 out f	or the general public versus litigation	8		MS. PARFITT: Objection to form.
9 versi	s the scientific community.	9	Q	Yes or no?
10 Q And	I this version that we are looking at is a	10		MS. PARFITT: Objection to form.
11 versi	on for health care professionals, correct?	11	A	I believe that this is incomplete.
12	MS. PARFITT: Objection.	12	Q	Incomplete because talc is not listed?
13 A I be	lieve it is. I believe they may have a	13		MS. PARFITT: Objection. Misstates her
14 publ	c-facing one, which is how yeah, go to the	14		testimony.
15 patie	nt version. So I'm clear on that. That	15	A	I believe that I am, as I stated with the NCI's,
16 migh	t be interesting to review.	16		I'm unaware how they did this review and how the
17 A	gain, this is not necessarily where	17		came to the conclusions and decided what to
18 scien	tists go for the latest and the greatest data	18		include and what not to include.
19 or pl	ysicians even for that matter.	19	Q	Finally, I know that you are currently in Indiana,
20 Q Just	the AACR?	20		correct?
21	MS. PARFITT: Objection.	21	A	Yes.
22 A No.	We don't go to the AACR either.	22	Q	You were aware that Indiana is a member of the
23 Q On	y the AACR links to the PDQ.	23		NCCN?
24 A Oh,	they may, yes, for reasons unknown.	24	A	They very recently became a member, yes.
25 Q And	l Karmanos links to the PDQ?	25	Q	And that's a big deal?
	Page 99			Page 101
1 A Co	rect. I believe they both do because this is a	1		MS. PARFITT: Objection to form.
2 source	ee of national information, yes.	2	A	The NCCN guidelines do direct really cancer
3 B	ut the methodology behind this is still not	3	1	treatment and more so cancer treatment, but
4 clear		4		also cancer diagnosis, yes.
5 Q And	I I see from your C.V. that you are also	5	Q	The NCCN is a respected cancer organization,
6 asso	ciated with the World Cancer Research Fund,	6	(	correct?
7 corre	ct?	7	A	NCCN, yes. It's a network of multiple
8 A I ha	ve reviewed a grant for them once or twice in	8	•	organizations, yes.
9 the p	ast.	9	Q	That is respected, correct?
	you aware that the World Cancer Research Fund	10	A	For, yeah, for clinical purposes. Yes.
11 puts	out a public-facing page for patients on	11	Q	Are you aware that the NCCN includes in its
12 ovar	an cancer?	12	;	guidelines a discussion of risk factors for
13 A I ar		13		ovarian cancer?
	ll mark this as Exhibit Number 10.	14		I'm not aware of that, no.
	EXHIBIT NUMBER 10 WAS MARKED FOR	15		Are you aware that the NCCN guidelines currently
16 IDE	NTIFICATION.)	16	:	state that talc has not been conclusively
	you see the WCRF puts out a page titled Ovarian	17		associated with ovarian cancer?
	er, correct?	18	A	I'm not aware of that.
19 A Co		19		MS. PARFITT: Objection.
	can see here that they have a section on "What	20	Q	Would you disagree with the NCCN as well?
	es ovarian cancer? Correct?	21		MS. PARFITT: Objection to form.
22 A Co		22		Again, I don't know how the NCCN comes to this
22 0 11/-	see here there is, if you flip, there is one	23		sort of conclusion. If they have an actual, like
24 flip	over from the first to second page. here are also other causes.	24 25		they do for treatment where they have a protocol in place and they have, you know, clearly stated

1	Page 102		Page 104
1	methodology for what data they include and	1	these.
2	exclude.	2	Reviewed is perhaps a bit of a stronger
3	I don't know how the NCCN guidelines are for,	3	statement.
4	you know, something like risk factors how they	4	Q Let me see if I can short circuit this.
5	develop their opinions and their statements there.	5	Are the materials that you intend to rely on
6	So I really can't comment on it.	6	for your opinions in this litigation the materials
7	Q Have you talked with anybody at Indiana about talc	7	in your literature cited list?
8	and ovarian cancer?	8	A Correct. What I relied on is in the literature
9	A Outside of the conflict of interest office, no. I	9	cited list.
10	did let my, the people who work for me and with me	10	Q Are there any things listed on this additional
11	know where I was these last two days.	11	materials list that you intend to rely on or talk
12	Q Have you talked with a gynecologic oncologist in	12	to the jury about in offering your opinions in
13	Indiana who is on the NCCN panel about talc and	13	this case?
14	ovarian cancer?	14	MS. PARFITT: Objection to the form.
15	A No, I have not.	15	A So my understanding is between now and if this
16	Q Do you know who she is?	16	does go to a jury trial I have the ability to
17	A I can think of a couple. Is it Lisa Landrum?	17	review more data, whether it's from peer reviewed
18	Q I don't think so. I'm asking if you know.	18	literature that is just newly published, whether
19	A No. I'm not aware who the, who the GYN oncologist	19	it's things that we request from you, like, you
20	at I.U. is who represents us, meaning I.U., on the	20	know, defense documents.
21	NCCN.	21	As well as, I could go back to some of this
22	I'm fairly new to Indiana. My understanding	22	and rely on this for my testimony in court. That
23	is Indiana is also recent, we are new to the NCCN	23	is my understanding.
24	as well within the time that I have been there.	24	So potentially, yes, I may go back to some of
25	Q Does 2022 sound right?	25	these, but I can't say. I mean, this is another
	Page 103		Page 105
1	1	1	143 items. I can't say specifically which ones I
2	Q I will go back to your expert report. Okay?	2	will pull out and rely on at a later date.
3	A Okay.	3	Q Okay. So just to tie that up. For purposes of
4	Q We touched upon this earlier. Your report	4	today, the opinions that you have to share with me
5	includes a set of literature cited, correct?		
		5	are based upon the literature cited list, is that
	A Correct.	6	fair?
7	A Correct. Q Then a set of additional materials considered,	6 7	fair? A In my report, yes.
7 8	A Correct.  Q Then a set of additional materials considered, correct?	6 7 8	fair? A In my report, yes. Q As we sit here today, you have not formed any
7 8 9	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered</li> </ul>	6 7 8 9	fair? A In my report, yes. Q As we sit here today, you have not formed any additional opinions, you are not relying on these
7 8 9 10	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> </ul>	6 7 8 9 10	fair? A In my report, yes. Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?
7 8 9 10 11	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.</li> </ul>	6 7 8 9 10 11	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.
7 8 9 10 11 12	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you. Let's go to your report and look at</li> </ul>	6 7 8 9 10 11 12	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.
7 8 9 10 11 12 13	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you. Let's go to your report and look at Appendix B. That is toward the end of the packet.</li> </ul>	6 7 8 9 10 11 12 13	fair? A In my report, yes. Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form. A I believe that is fair, yes. Q Okay. Then finally to really try to wrap this up,
7 8 9 10 11 12 13 14	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you. Let's go to your report and look at Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> </ul>	6 7 8 9 10 11 12 13 14	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL,
7 8 9 10 11 12 13 14 15	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.  Let's go to your report and look at  Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> <li>Q So this list is different than your citations in</li> </ul>	6 7 8 9 10 11 12 13 14 15	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe
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7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.  Let's go to your report and look at  Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> <li>Q So this list is different than your citations in your report?</li> <li>A Yes, that is correct.</li> <li>Q Have you reviewed, and do you rely upon all of the</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe your counsel this morning referenced the fact that a set of materials were shared with us via a drop box.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.  Let's go to your report and look at Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> <li>Q So this list is different than your citations in your report?</li> <li>A Yes, that is correct.</li> <li>Q Have you reviewed, and do you rely upon all of the items listed on the Additional Materials Considered list?</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe your counsel this morning referenced the fact that a set of materials were shared with us via a drop box.  Do you understand that to be true?  A I understand that to be true, yes.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.  Let's go to your report and look at Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> <li>Q So this list is different than your citations in your report?</li> <li>A Yes, that is correct.</li> <li>Q Have you reviewed, and do you rely upon all of the items listed on the Additional Materials Considered list?  Let me split that in separate questions.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe your counsel this morning referenced the fact that a set of materials were shared with us via a drop box.  Do you understand that to be true?  A I understand that to be true, yes.  Q Do you understand that that set of materials is
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A Correct.  Q Then a set of additional materials considered, correct?  A I believe that the additional materials considered is in a drop box.  Q Okay. Let me clarify here for you.     Let's go to your report and look at     Appendix B. That is toward the end of the packet.  A Yes.  Q So this list is different than your citations in your report?  A Yes, that is correct.  Q Have you reviewed, and do you rely upon all of the items listed on the Additional Materials     Considered list?     Let me split that in separate questions.  A Okay.  Q Have you reviewed all of the items listed on the	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe your counsel this morning referenced the fact that a set of materials were shared with us via a drop box.  Do you understand that to be true?  A I understand that to be true, yes.  Q Do you understand that that set of materials is this AMCL set, or do you think that is a whole other set?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A Correct.</li> <li>Q Then a set of additional materials considered, correct?</li> <li>A I believe that the additional materials considered is in a drop box.</li> <li>Q Okay. Let me clarify here for you.  Let's go to your report and look at Appendix B. That is toward the end of the packet.</li> <li>A Yes.</li> <li>Q So this list is different than your citations in your report?</li> <li>A Yes, that is correct.</li> <li>Q Have you reviewed, and do you rely upon all of the items listed on the Additional Materials Considered list?  Let me split that in separate questions.</li> <li>A Okay.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	fair?  A In my report, yes.  Q As we sit here today, you have not formed any additional opinions, you are not relying on these additional materials considered, is that fair?  MS. PARFITT: Objection to the form.  A I believe that is fair, yes.  Q Okay. Then finally to really try to wrap this up, in addition to the literature cited, the AMCL, additional materials considered list, I believe your counsel this morning referenced the fact that a set of materials were shared with us via a drop box.  Do you understand that to be true?  A I understand that to be true, yes.  Q Do you understand that that set of materials is this AMCL set, or do you think that is a whole

Page 106		Page 108
1 A I've not cross referenced anything though.	1	Q Are you an exposure scientist?
2 Q Understood.	2	A No.
3 MS. PARFITT: It is eleven. Do we want to	3	Q Are you a pathologist?
4 take a quick break?	4	A No. But I have long-term collaborations with
5 MR. JAMES: It has been another hour.	5	pathologists and to the extent that, you know, my
6 Sure.	6	bachelor's of science was in biology, so I have
7 (OFF RECORD AT 11:11 A.M.)	7	had some exposure to some of the other fields you
8 AT THIS TIME A SHORT RECESS WAS HELD OFF	8	mentioned.
9 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	9	As well as I spent a number of years with
10 WERE HAD:)	10	NIEHS, National Institute of Environmental Healt
11 (ON RECORD AT 11:19 A.M.)	11	Sciences funded center at Wayne State that focuse
12 BY MR. JAMES:	12	on environmental health and toxicology issues.
13 Q Dr. Cote, just to clarify a point earlier, in	13	So I have had a lot of exposure to it
14 reference to a drop box of materials that has been	14	throughout my career, but I don't define myself as
15 shared with me, are you prepared today to offer	15	that because I know true experts in that area.
any opinions on materials in that drop box that	16	Q Do you have expertise in microscopy?
are not listed in your literature cited list?	17	
18 A No.	18	Q You are not a gynecologic pathologist either,
19 Q If you do form additional opinions beyond what is	19	correct?
20 disclosed today in your report, will you let your	20	A Correct.
21 counsel know that?	21	Q Do you recognize gynecologic pathology as a
22 A Yes.	22	special expertise of pathology?
	23	A Yes, I believe that that is a subspecialty. That
23 MR. JAMES: And then you and I and others	24	is available at some, but not all, cancer centers,
will have a discussion about what that means.	25	medical centers.
25 Okay?	23	
Page 107	1	Page 109
1 MS. PARFITT: Sure.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	( ,
MR. JAMES: For the record, that was	2	pathologist about the talc and ovarian cancer hypothesis?
directed towards Michelle.	3	A No, I've not.
4 Q Were you ever a genetic counselor?	4	
5 A No.	5	Q Do you agree that for considering the relevant
6 Q Do you have any expertise in mineralogy or mineral	6	pathology evidence to the talc ovarian cancer
7 characterization?	7	1 2 2
8 A No.	8	pathologist would be especially important?
9 Q Are you a mineral scientist?	9	MS. PARFITT: Objection to form.
10 A No.	10	A I'm not sure what you are meaning in terms of that
	111	the contract of the second of
11 Q Do you have any expertise in mineral analysis or	11	they must have that subspecialty to be able to
<ul><li>11 Q Do you have any expertise in mineral analysis or</li><li>12 testing?</li></ul>	12	comment on literature on this case? I'm not sure
<ul><li>11 Q Do you have any expertise in mineral analysis or</li><li>12 testing?</li><li>13 A No.</li></ul>	12 13	comment on literature on this case? I'm not sure what you are referring to.
<ul> <li>11 Q Do you have any expertise in mineral analysis or</li> <li>12 testing?</li> <li>13 A No.</li> <li>14 Q Do you have any expertise in the testing for</li> </ul>	12 13 14	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?
<ul> <li>11 Q Do you have any expertise in mineral analysis or</li> <li>12 testing?</li> <li>13 A No.</li> <li>14 Q Do you have any expertise in the testing for</li> <li>15 asbestos or talc?</li> </ul>	12 13 14 15	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from
<ul> <li>11 Q Do you have any expertise in mineral analysis or</li> <li>12 testing?</li> <li>13 A No.</li> <li>14 Q Do you have any expertise in the testing for</li> <li>15 asbestos or talc?</li> <li>16 A No.</li> </ul>	12 13 14 15 16	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this
<ul> <li>11 Q Do you have any expertise in mineral analysis or</li> <li>12 testing?</li> <li>13 A No.</li> <li>14 Q Do you have any expertise in the testing for</li> <li>15 asbestos or talc?</li> <li>16 A No.</li> <li>17 Q Do you have any expertise in the various types of</li> </ul>	12 13 14 15 16 17	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos?	12 13 14 15 16 17 18	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be
<ul> <li>11 Q Do you have any expertise in mineral analysis or</li> <li>12 testing?</li> <li>13 A No.</li> <li>14 Q Do you have any expertise in the testing for</li> <li>15 asbestos or talc?</li> <li>16 A No.</li> <li>17 Q Do you have any expertise in the various types of</li> </ul>	12 13 14 15 16 17 18 19	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos?	12 13 14 15 16 17 18 19 20	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No.	12 13 14 15 16 17 18 19	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have not reviewed.  As to whether some of the papers I reviewed
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No. 20 Q Do you have any expertise in geology or mining?	12 13 14 15 16 17 18 19 20	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have not reviewed.  As to whether some of the papers I reviewed had gynecologic oncologists on it, perhaps.
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No. 20 Q Do you have any expertise in geology or mining? 21 A No.	12 13 14 15 16 17 18 19 20 21	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have not reviewed.  As to whether some of the papers I reviewed
11 Q Do you have any expertise in mineral analysis or 12 testing? 13 A No. 14 Q Do you have any expertise in the testing for 15 asbestos or talc? 16 A No. 17 Q Do you have any expertise in the various types of 18 asbestos? 19 A No. 20 Q Do you have any expertise in geology or mining? 21 A No. 22 Q Are you a microscopist?	12 13 14 15 16 17 18 19 20 21 22	comment on literature on this case? I'm not sure what you are referring to.  Can you rephrase the question?  Q Have you reviewed any reports or opinions from gynecologic pathologist on the issues in this case?  A Not that I'm aware of, no. Reports would be individual level patient reports. And that I have not reviewed.  As to whether some of the papers I reviewed had gynecologic oncologists on it, perhaps.

	Page 110		Page 112
1	A No, not that I'm aware of.	1	A No, I did not do a comprehensive review on
2	Q You are not an oncologist, correct?	2	fragrances or heavy metals.
3	A Correct. I am not an oncologist.	3	Q Did you do a comprehensive review of the medical
4	Q You are not a cell biologist or cancer biologist,	4	and scientific literature on the alleged presence
5	correct?	5	of asbestos and related elements in talcum
6	A I am not trained in cancer biology, no. But I	6	powders?
7	spent about twenty years in the cancer biology, it	7	MS. PARFITT: Objection.
8	was not a department, but we were a training	8	A I did not do a review specifically of asbestos. I
9	faculty for cancer biology students.	9	certainly reviewed comprehensive reports by, for
10	So I do feel like I have a good, but perhaps	10	example, IARC that included asbestos as their main
11	not expert grasp of cancer biology.	11	exposure of interest.
12	Q And we talked earlier today about the in vitro	12	Q Just to be more precise, did you do a
13	studies, correct?	13	comprehensive review of evidence related to the
14	A Correct.	14	alleged presence of asbestos in talcum powders?
15	Q And your testimony on that from this morning	15	A No, I did not do a comprehensive systematic
16	remains?	16	review.
17	A Correct. I do not do in vitro work in my own	17	Q Did you do a comprehensive review of the alleged
18	laboratory.	18	presence of fibrous talc in talcum powders?
19	Q Do you agree that prior to offering an expert	19	MS. PARFITT: Objection.
20	opinion on a particular topic that an expert	20	A Again, I read a lot of literature about fibrous
21	should be expected to conduct a comprehensive	21	talc. But I did not do a comprehensive systematic
22	review of the evidence on that topic?	22	review like I did for the epidemiologic studies.
23	MS. PARFITT: Objection. Form.	23	Q And for the epidemiologic studies on talc and
24	A Can you restate that question?	24	ovarian cancer, correct?
25	Q Sure. As a scientist like yourself,	25	A Yes. It was talc as a whole. It was not the
	Page 111		Page 113
1	methodologically before offering an opinion on a	1	components. It was whatever was in the bottles or
2	specific topic, do you agree that you should do a	2	containers of talc that the women were using.
3	comprehensive review of the medical and scientific	3	Q Did you do a comprehensive review of the actual
4	literature on that topic?	4	underlying articles on the alleged association or
5	A I agree that a comprehensive review should be	5	relationship between asbestos and ovarian cancer?
6	undertaken before entering an opinion, yes.	6	MS. PARFITT: Objection. Form.
7	Q For purposes of the report and your opinions in	7	A No, I did not do my own individual review of the
8	this litigation, did you do a comprehensive review	8	articles going back to the literature.
9	for medical and scientific evidence on the alleged	9	For example, like what was cited in IARC, for
10	presence of heavy metals in talc powers?	10	example, I did not do that.
11	A I did not do a systematic review of heavy metal in	11	Q I understand from your report you looked at IARC
12	talc powder.	12	2012, correct?
13	Q And related to that, did you do a systematic or a	13	A There were two others as well.
14	comprehensive review on the alleged	14	Q Understood. For purposes of asbestos you are
15	carcinogenicity of heavy metals in talcum powders?	15	referring to having reviewed IARC 2012, is that
16	A No, I did not do a systematic review.	16	right?
17			
	Q Did you do a comprehensive review on the alleged	17	MS. PARFITT: Objection. Objection.
18	Q Did you do a comprehensive review on the alleged relationship between heavy metals and ovarian	17 18	MS. PARFITT: Objection. Objection.  MR. JAMES: I will just withdraw the
18 19	· · · · · · · · · · · · · · · · · · ·	1	
	relationship between heavy metals and ovarian	18	MR. JAMES: I will just withdraw the
19	relationship between heavy metals and ovarian cancer?	18 19	MR. JAMES: I will just withdraw the question.
19 20	relationship between heavy metals and ovarian cancer?  A No, I did not do a comprehensive systematic review	18 19 20	MR. JAMES: I will just withdraw the question.  Q Before being retained in the litigation what was
19 20 21	relationship between heavy metals and ovarian cancer?  A No, I did not do a comprehensive systematic review regarding heavy metals and ovarian cancer.	18 19 20 21	MR. JAMES: I will just withdraw the question.  Q Before being retained in the litigation what was your opinion on the relationship between talc and
19 20 21 22	relationship between heavy metals and ovarian cancer?  A No, I did not do a comprehensive systematic review regarding heavy metals and ovarian cancer.  Q Did you do a comprehensive review for medical or	18 19 20 21 22	MR. JAMES: I will just withdraw the question.  Q Before being retained in the litigation what was your opinion on the relationship between talc and ovarian cancer?

time did not perform a systematic review, but it

25

25

fragrances?

1	Page 114 was certainly included as, you know, the more	1	Page 116 done a systematic review that asbestos has been
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	primary authors of that paper, Schildkraut and	$\frac{1}{2}$	named as a Group 1 carcinogen by IARC for well
3	probably Moorman. I'm not recalling who the	3	over a decade now. I think that there is evidence
4	second author on the paper was, but those are	4	that also points towards talcum powder contains
5	usually kind of the three who do the first draft	5	asbestos or fibrous talc, and that could be a
6	and a lot more of the heavy lifting.	6	causal agent for ovarian cancer. Yes.
7	I felt like based on the epidemiologic	7	Q Again, you agree you did not systematically or
8	evidence that there was a consistent association.	8	comprehensively look at the evidence on the
9	And by consistency I mean the point estimates for,		presence of asbestos in talcum powders, correct?
10	you know, the different here it was mostly case	10	MS. PARFITT: Objection. Asked and
11	control studies at the time were consistent	11	answered.
12	across multiple populations over the last, you	12	
13	know, thirty or forty decades across the globe.	13	A I did not do a systematic review specifically
14	So I felt like there was really strong	14	looking at asbestos and the association with
15	epidemiologic evidence that suggested an	15	ovarian cancer.
16	association.	16	
17	In terms of causation, I didn't form any real	17	
18	opinion of causation until I started this work,	18	Q Under the Other Substances subheading in the
19	like, in late fall of this year.	19	second sentence you say, "In addition to platy
	Q Okay. Given that, then prior to your involvement		talc, talcum powder often contains asbestos and
21	in this litigation, is it correct that you have	21	almost always contains talc fibers."
22	not expressed publicly or to professional	22	Do you see that?
23	colleagues that you consider talc to be a cause of	23	A Yes. Correct.
24	ovarian cancer?	24	Q Did you do a systematic review to support that
25	MS. PARFITT: Objection. Form.	25	opinion?
	Page 115		Page 117
1 A	Correct. There would be no place that I ever	1	MS. PARFITT: Objection. Form.
2	would have stated that talc is a cause of ovarian	2	A No. That opinion was supported by the Longo and
3	cancer.	3	Rigler historical samples that I cited right in
4	I mean, my work, my published work states	4	
5	that we believe that there is an association. But	5	the next sentence.
6		)	the next sentence.  Q And that is all it's supported by, correct?
	that is different than cause.	6	
			Q And that is all it's supported by, correct?
	that is different than cause.		<ul> <li>Q And that is all it's supported by, correct?</li> <li>MS. PARFITT: Objection.</li> <li>A I think that is also supported by the next sentence that says, "Internal testing by Johnson &amp;</li> </ul>
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7 Q 8 9 10 11 12 A 13 14 Q 15 A 16 Q 17 A 18 Q 19 20 21 22 23	that is different than cause.  And in the Schildkraut paper, which we will look at, I believe that I saw the term suggestive of an association.  Does that sound accurate to you?  MS. PARFITT: Objection. Form.  I don't recall how it was classified in that paper.  Fair enough.  We can wait until later.  Fair enough.  Okay.  Given your testimony on what you have and have not comprehensively looked at, in this case do you intend to offer an expert opinion that talcum powders are contaminated with asbestos?  MS. PARFITT: Objection to the form.  You may answer.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q And that is all it's supported by, correct?  MS. PARFITT: Objection.  A I think that is also supported by the next sentence that says, "Internal testing by Johnson & Johnson with testing done sporadically from 1957 to 1992 showed various samples contained asbestos and/or talc fibers."  That one is also referenced.  And then the third line of evidence that I have there is that, "As recently as October 18, 2019, the FDA updated a Safety Alert and issued a Constituent Update warning consumers not to use certain cosmetic products that tested positive for asbestos, after a sample of Johnson's Baby Powder tested positive for asbestos and talc fibers."  They give the lot number.  Q Doctor  A Then the final piece of evidence that supported that first sentence was from, "The Final Rule from
7 Q 8 9 10 11 12 A 13 14 Q 15 A 16 Q 17 A 18 Q 19 20 21 22 23	that is different than cause.  And in the Schildkraut paper, which we will look at, I believe that I saw the term suggestive of an association.  Does that sound accurate to you?  MS. PARFITT: Objection. Form.  I don't recall how it was classified in that paper.  Fair enough.  We can wait until later.  Fair enough.  Okay.  Given your testimony on what you have and have not comprehensively looked at, in this case do you intend to offer an expert opinion that talcum powders are contaminated with asbestos?  MS. PARFITT: Objection to the form.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q And that is all it's supported by, correct?  MS. PARFITT: Objection.  A I think that is also supported by the next sentence that says, "Internal testing by Johnson & Johnson with testing done sporadically from 1957 to 1992 showed various samples contained asbestos and/or talc fibers."  That one is also referenced.  And then the third line of evidence that I have there is that, "As recently as October 18, 2019, the FDA updated a Safety Alert and issued a Constituent Update warning consumers not to use certain cosmetic products that tested positive for asbestos, after a sample of Johnson's Baby Powder tested positive for asbestos and talc fibers."  They give the lot number.  Q Doctor  A Then the final piece of evidence that supported

	Page 118		Page 120
1	Requirements Under the Toxic Substances Control	1	results of talcum powder products from 1957 to
2	Act', published July 25, 2023, recognizes the	2	1992?
3	co-occurrence of asbestos and talc as such: 'EPA	3	MS. PARFITT: Objection to the form of the
4	maintains that talc and vermiculite are some	4	question.
5	examples of the bulk commodities that may contain	5	A I have no idea what types of internal testing was
6	asbestos as an impurity."	6	done outside of what I saw in that report.
7	So, you know, I think I use there if I'm	7	Q As a scientist are you intending to offer an
8	counting correctly, one, two, three, four	8	opinion that talcum powders often contain
9	different sources from very different	9	asbestos?
10	organizations or people.	10	Is that an opinion that you are intending to
11 (	Q Does the EPA document that you cite support the	11	offer?
12	proposition that talcum powders often contain	12	And are these the lines of evidence that you
13	asbestos? Yes or no?	13	intend to cite to support that?
14 A	A I don't know. I would have look at that full	14	MS. PARFITT: Objection. Asked and
15	document. I have just quoted that they maintain	15	answered.
16	that talc and vermiculite are some examples of	16	A I intend to state what I have listed here in my
17	bulk commodities that may contain asbestos.	17	expert report, that there have been various
18 (	Q Does even that sentence talk about talcum powders?	18	individuals and agencies who have found at variou
19	It talks about talc as a bulk commodity,	19	points in time over the last five decades,
20	correct?	20	including the FDA, that there is asbestos and/or
21 A	A It does, yes.	21	talc fibers contained in talcum powder.
22 (	Q The FDA letter, do you understand that the FDA	22	Q And I'm focused on the word "often." You are th
23	testing you cite pertains to a single bottle,	23	one in your expert report using the word "often."
24	correct?	24	Do you see that?
25	MS. PARFITT: Objection. Form.	25	A Yes.
	Page 119		Page 121
1	You may answer.	1	Q Do you have a quantitative judgment
1	A Correct. But my understanding is that the FDA	2	A Yes.
3	does not test every single bottle. It tests a	3	Q that talcum powders often contain asbestos? Is
4	subset.	4	that your opinion?
	Q But does the FDA testing support the proposition		MS. PARFITT: Asked and answered.
6	that talcum powder often contains asbestos? Yes		A Based on data that has, you know, we have been
7	or no?	7	found or has been provided, yes, I stand by often.
8	MS. PARFITT: Objection.	8	And that right here is based on Longo and
1	A I do not know.	9	Rigler stating that sixty-eight percent of the
	Q The internal testing says in your sentence that	10	
			samples contained asbestos and ninety-eight
11	testing was done sporadically.	11	percent of the samples contained fibrous talc.
12	testing was done sporadically.  Does the internal testing support the opinion	11 12	percent of the samples contained fibrous talc.  I would consider that often.
12 13	testing was done sporadically.  Does the internal testing support the opinion that talcum powder often contains asbestos?	11 12 13	percent of the samples contained fibrous talc.  I would consider that often.  Q You would agree you don't have any expertise in
12 13 14 A	testing was done sporadically.  Does the internal testing support the opinion that talcum powder often contains asbestos?  A I would have to go back to that. That is the	11 12 13 14	percent of the samples contained fibrous talc.  I would consider that often.  Q You would agree you don't have any expertise in mineralogy or testing for asbestos, correct?
12 13 14 A 15	testing was done sporadically.  Does the internal testing support the opinion that talcum powder often contains asbestos?  A I would have to go back to that. That is the Hopkins document, I believe.	11 12 13 14 15	percent of the samples contained fibrous talc.  I would consider that often.  Q You would agree you don't have any expertise in mineralogy or testing for asbestos, correct?  MS. PARFITT: Objection.
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12 13 14 15 16 17 18 19 20 21 22 23 24	testing was done sporadically.  Does the internal testing support the opinion that talcum powder often contains asbestos?  A I would have to go back to that. That is the Hopkins document, I believe.  Q Did you look at any actual testing documents?  A I looked at a spreadsheet.  Q A spreadsheet?  A Yes.  Q Did you look at actual testing results?  A Can you clarify? I am not sure what you are meaning by that.	11 12 13 14 15 16 17 18 19 20 21 22	percent of the samples contained fibrous talc.  I would consider that often.  Q You would agree you don't have any expertise in mineralogy or testing for asbestos, correct?  MS. PARFITT: Objection.  A I would agree I don't have that expertise, but I can read a lab report.  Q You can read?  A Yes.  Q The jury can read, correct?  MS. PARFITT: Argumentative.  If you have a question, ask it.

	Page 122		Page 124
1	jury is. I will probably not administer a reading	1	testing done by Johnson & Johnson.
2	test to them.	2	Q That was sorry.
	Q The Longo report that you cite is a litigation	3	A That was my understanding of what Johnson &
4	byproduct, correct?	4	Johnson had to offer. I am not aware of any other
5	MS. PARFITT: Objection to form.	5	materials, but I'm happy to review them.
	A It's my understanding that, yes, it's a litigation	6	Q And that was the spreadsheet selected for you by
7	byproduct.	7	plaintiff's counsel?
8	Q And did you request access to Longo's testing?	8	MS. PARFITT: Objection to form.
	A Yes, I believe I did.	9	A The spreadsheet was provided to me by counsel.
10	Q Did you read the entirety of Longo's report?	10	Yes.
11	A I scanned the entirety of that report, yes. I	11	Q Do you know that there have been thousands of
12	mean, it's the MAC report. That is the name of	12	testing and testing documents done since the
13	the company, I believe, that they work under.	13	timeframe that you cite?
14	Q Have you reviewed all of Longo's publications and	14	MS. PARFITT: Objection to form.
15	testing on talcum powders, or is this all you have	15	Q Here you refer to the 1950s.
16	reviewed from Longo?	16	Are you aware that there have been thousands
17	MS. PARFITT: Objection to the question.	17	of tests performed on talcum powders during that
18	I'm not sure I know what you are asking.	18	time period?
19	MR. JAMES: I think you know. That is	19	MS. PARFITT: Objection to form.
20	fine.	20	A I'm not aware of that. I'm aware of another that
	Q Is this all you have reviewed from Longo?	21	I list here in my report. If you want to go back
22	MS. PARFITT: Objection.	22	to my expert testimony to that second paragraph,
	A Yes, this is what I have reviewed from Longo.	23	it was a study done in Malaysia by Almugren.
1	Q And is this part of the published medical	24	They tested four different types of talcum
25	literature?	25	powder products currently available. One was
1	Page 123	1	Page 125 Lehnson's Pohy Poyeder. They noted that all of
1	MS. PARFITT: Objection.  A I don't believe it is.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Johnson's Baby Powder. They noted that all of them contained nickel, arsenic, and lead. They
	Q Is this peer reviewed?	3	also talked about, you know, the prior studies in
4	MS. PARFITT: Objection.	4	this area.
	A I'm unaware if they have peer reviewed any of	5	So there is I'm aware that there has been
6	this.	6	other testing done. I don't have it at my
	Q Had you ever heard of Longo or Rigler before you	7	fingertips in terms of the thousands of documents
8	became a litigation expert?	8	you have been talking about.
	A No.	9	I'm aware there has been further testing done
	Q Do you know how many times they have testified for	10	looking at different constituents of Johnson's
11	plaintiffs in the talc litigation?	11	Baby Powder.
12	MS. PARFITT: Objection.	12	Q As a scientist if you are going to make a commen
13	A No, I have no knowledge of that.	13	on a topic like talcum powders often contained
	Q Do you know how much money they have earned as	14	asbestos, as a scientist don't you think it's
15	experts in the talc litigation?	15	important to look at the material and the evidence
16	MS. PARFITT: Objection.	16	and the testimony and the documents relevant to
17	A I have no idea how much money they have earned.	17	that claim?
	Q Do you know if their opinions have ever been	18	MS. PARFITT: Objection. Misstates her
19	excluded by a court as unreliable?	19	testimony.
	MS. PARFITT: Objection to form.	20	You can answer.
20		21	A As a scientist, I cited four different sources
	A I have no idea of their opinions, no.		
21	Q Did you ask if defendants have provided any	22	that all had the same conclusion that they had
21 22 23	Q Did you ask if defendants have provided any contrary evidence to Longo and Rigler?	22 23	found evidence at some point of asbestos and/or
21 22 23	Q Did you ask if defendants have provided any	22	

	2		2 400
1	Page 126 was Hopkins. It was the FDA. And it was kind of	1	Page 128 on asbestos testing?
2	the final ruling of the EPA.	2	
3	Q Okay.	3	MS. PARFITT: Objection.
4	A To me that is four distinct pieces of evidence.	4	A No, I have not.
5	Recognizing that I did not do a systematic review	5	Q Have you reviewed any documents that give context
6	and that this was not to build causation, this was	6	to the entries on the spreadsheet that you
7	just to look at biologic plausibility, I feel like	7	reviewed?
8	it was a sufficient read.	8	MS. PARFITT: Objection. Form.
9	Q Did you look at any other FDA testing?	9	A No, I have not. But I have reserved my right to
10	Do you know if the FDA has tested any other	10	review more after this deposition.
11	talcum powders?	11	Q Did you look for any published literature on the
12	MS. PARFITT: Objection to form.	12	claim that talcum powders have asbestos in them?
13	A I have not looked at other talcum powders. I	13	A I'm sorry. Can you repeat that?
14	really just considered talcum powder as a whole.	14	
15	Q I appreciate that. Again, you have in your expert	15	Did you comprehensively look for published
16	report the sentence that talcum powder often	16	literature on the topic of the presence of
17	contains asbestos.	17	asbestos in talcum powders?
18	I have asked you if you intend to offer that	18	A No. That would be looking at a systematic review
19	opinion. You are telling me yes. That is why I'm	19	of the components of talcum powder and I did not
20	asking what you have relied on.	20	do that.
21	So the sum total of what you have relied on	21	Q Do you have any familiarity of the specifications
22	to support that statement as a scientist is	22	for talcum powder products?
23	contained in this paragraph, is that correct?	23	MS. PARFITT: Objection to form.
24	MS. PARFITT: Objection. Misstates her	24	A No. I'm unaware of what the specifications are.
25	testimony. I think she just talked to you about	25	I assume you mean like purity or something along
	Page 127		Page 129
1	the EPA as well.	1	those lines? No, I'm not aware of what those are.
2	MR. JAMES: That is in the paragraph.	2	
3	MS. PARFITT: The recent EPA.	3	accordance with standards set by the USP?
4	A What was the question?	4	Is that a body that you have ever heard of?
5	Q You are just parroting Dr. Longo's conclusion,	5	MS. PARFITT: Objection. Form.
6 7	correct?  MS. PARFITT: Scott, you are being	6	A I believe I'm familiar with the USP as a body.
8	argumentative and borderline disrespectful to Dr.	· ·	What their actual charge is I'm less clear.  Q Do you have any familiarity with USP in
9	Cote. That is not your nature, so I would ask	9	relationship to talcum powders?
10	that you stop.		A No, I do not.
11	MR. JAMES: I disagree with you. I'm	11	Q Did you look at the FDA testing in 2010 of talcum
12	entitled to ask questions about this report.	12	powders?
13	Q Dr. Cote, with all due respect		A I did not look at the testing in 2010.
14	MS. PARFITT: Thank you.	14	Q Do you understand that the FDA has recognized that
15	Q you were citing in this paragraph the sources	15	large deposits of high purity asbestos free talc
16	that you were relying on for the opinion that	16	exists geologically?
17	talcum powder often contains asbestos, is that	17	Were you aware of that?
18	correct?	18	MS. PARFITT: Objection to form.
19	A That is the opinion put forth and supported by	19	A I have not examined where high purity talc exists
20	four different references.	20	and whether or not the FDA has made statements
21	Q Did you review Dr. Hopkins' testimony about the	21	towards this.
22	spreadsheet that you were given?	22	Q Do you have any familiarity with where Johnson &
23	A I did not.	23	Johnson sources its talcum powders from?
24	Q Have you reviewed any testing or expert reports	24	A I believe that has changed over time.
25	from Johnson & Johnson experts in this litigation	25	Q Do you have any familiarity with the geology of

	Page 130		Page 132
1	those areas?	1	an epidemiologic standpoint where people who are
2	A No. I believe currently that China is where much	2	using talcum powder of whatever brand or whatever
3	of it is sourced. That is a very large country	3	type, they don't know what is in that bottle.
4	that I have never visited. So I'm unaware of the	4	So when I am reviewing it, I'm reviewing talc
5	geology.	5	and everything that it contains. But the
6	Q Do you have any opinions on the amount of alleged	6	assumption is that there is not asbestos in that
7	asbestos in Johnson & Johnson's finished products?	7	talc.
8	A I am unaware of the amount of asbestos in Johnson	8	But the review is everything that is
9	& Johnson's finished products.	9	contained in that talc bottle.
10	But I would assume that any amount of	10	Q The body of literature on talcum powders and
11	asbestos is potentially carcinogenic.	11	ovarian cancer tests the hypothesis whatever is it
12	Q Do you have any expertise in exposure to asbestos	12	in?
13	in ambient air?	13	A Yes.
14	Is that something that you have ever looked	14	Q Is that fair?
15	at?	15	A All of the constituents that are in talc that
16	A No. I have not studied ambient air and asbestos	16	are in the bottle, let's just say, because they
17	exposure.	17	might be co-occurring with it. It might be
18	Q Do you have any expertise in exposures to asbestos	18	something that is intentionally added like
19	through other everyday life activities?	19	fragrances.
20	A No. I'm not aware. Although, I know asbestos is	20	It's everything within that bottle with talc
21	ubiquitous. It's almost everywhere.	21	being the primary component.
22	Q If there isn't asbestos in Johnson & Johnson	22	Q Have you ever conducted, outside of litigation, a
23	talcum powders do you still hold the opinion that	23	comprehensive review on the literature of asbestos
24	talcum powders are a general cause of ovarian	24	and ovarian cancer?
25	cancer?	25	MS. PARFITT: Objection. The question was
			<u> </u>
	Page 131		Page 133
l .	A Yes, I do.	1	Page 133 asked and answered.
2	A Yes, I do. Q Does it change your opinions in any way?	2	Page 133 asked and answered. A No. I have never done a systematic review of
2 3	<ul><li>A Yes, I do.</li><li>Q Does it change your opinions in any way?</li><li>A No, it does not. When I started with, you know,</li></ul>	2 3	Page 133 asked and answered.  A No. I have never done a systematic review of asbestos and ovarian cancer.
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	P 124		Press 127
1	Page 134 That asbestiform refers to the pattern of the	1	Page 136 Q Then also in this sentence you would say talc
2	growth, which is not to be confused with talc that	2	fibers are also interchangeable, correct?
3	separately contains asbestos.	3	A Yes.
4	Q And I did read your report.	4	Q You cite the IARC Monograph from 2012 for the
5	A Okay.	5	proposition that the term fibrous talc is
6	Q What I'm trying to grapple with is your use of the	6	classified by IARC as a Class 1 human carcinogen
7	terminology.	7	do you see that?
8	A Yes.	8	A I'm not sure I do. Can you point to where that
9	Q Okay. Do you think fibrous talc and asbestiform	9	is?
10	talc, are those two terms interchangeable in your	10	Q Yes. In the same paragraph about halfway up.
11	mind?	11	"Talc may also form fibers"
12	A That is how I interpret it, yes. It has very	12	Do you see that?
13	little to do again, ultimately, I'm looking at	13	A Yes.
14	talc and all it contains is what the basis of the	14	Q Five lines up.
15	report is built on.	15	A Yes.
16	Q Do you think fibrous talc, the term fibrous talc,	16	Q The next sentence says, "This type of talc,
17	and the term talc containing asbestiform fibers,	17	referred to as fibrous talc"
18	are they in your mind interchangeable?	18	A It says, "Talc may also form fibers that are
19	Do they mean the same thing?	19	asbestiform in habit, meaning they have greater
20		20	strength, flexibility and durability. This type
21		21	of talc, referred to as fibrous talc, has also
22	1	22	been classified by IARC as a Class 1 human
23		23	carcinogen."
24	•	24	So, yes, talc with fibers that are
25	containing asbestos fibers interchangeably?	25	asbestiform in habit is referred to as fibrous
	Page 135		Page 137
1	A I'm not sure where I put each of those	1	talc based on this statement. And they are both
2	interchangeably in the report. I tended to if	2	Class 1 carcinogens.
3	I referred to them, I referred to them as the	3	Q Sitting here today, do you know if the term
4	authors of whatever literature referred to them.	4	"fibrous talc" is used anywhere in the IARC
5	But, yes, the asbestiform fibers is the same	5	Monograph?
6	as fibrous talc. And what was the third one?	6	MS. PARFITT: Objection. Form.
7	Q Talc containing asbestiform fibers.		A Sitting here today, no, I do not know how they
8	A Talc containing asbestos fibers. I don't know if	8	refer to it.
9	I used that in the report. I would have to see how I referred to that.	9	Q Would it surprise you to learn that the term
10 11		10	"fibrous talc" is actually not contained in the
12		11 12	2012 Monogram?  MS_DARRITT: Objection to form
13	Q On Page 16, in the second paragraph at the end of		MS. PARFITT: Objection to form.
14		14	A I'm not surprised by much of anything. So, no, it would not surprise me.
15			Q Do you have any familiarity with the term cleavage
16		16	fragment?
17			A With respect to DNA analysis, that is my primary
18	-	18	go to, yes.
19	. ***		Q Understood. Do you have any familiarity with that
20		20	term of art used in the context of mineralogy?
21		21	A No, I do not.
22		22	Q With respect to heavy metals, earlier today you
23		23	mentioned the Almugren article, correct?
24			A Yes.
25	A I think, yes.	25	Q You also cite in your report the presence of heavy

	Page 138		Page 140
1	metals, the Pier deposition?	1	expertise is.
2	A Correct.	2	Q I was not meaning to suggest the broader topic.
3	Q Are there any other materials that you rely on for	3	This was specific to heavy metals.
4	the presence of heavy metals in talcum powders?	4	•
5	A No, I did not do a systematic review of talcum	5	Q You have reviewed a very limited set of materials
6	powder and heavy metals.	6	fair?
7	Q Was the Pier deposition given to you by counsel?	7	MS. PARFITT: Objection to form.
8	A Yes, it was.	8	A Yes, I did not do a comprehensive review or
9	Q And was the Almugren article given to you by	9	systematic review of heavy metals.
10	counsel?	10	Q Just like with asbestos, you didn't look at any
11	A No.	11	testing document on heavy metals?
12	Q Okay. Was that something that you found on you	r12	MS. PARFITT: Objection.
13	own?	13	A From what was in Pier, yes. Other than that, no.
14	A Yes.	14	Q Other than Pier, you have not looked at any
15	Q Did you read the entirety of the Pier deposition	15	testing document from Johnson & Johnson or the
16	or just sections?	16	defendants, correct?
17	A I did not read the entirety of it.	17	MS. PARFITT: Objection.
18	Q And did you read sections pertaining to heavy	18	A Correct. That was not the focus of this report at
19	metals?	19	all.
20	A Yes.	20	Q And are you aware there are specifications
21	Q Were those sections selected for you?	21	relevant to the presence of heavy metals in talcum
22	A No, they were not.	22	powders?
23	Q Did you ask for the Pier deposition?	23	MS. PARFITT: Objection. Vague.
1	A I asked for materials related to other components	24	
25	or other things found.	25	standards or regulations in place for most
,	Page 139		Page 141
	Q You have the Pier deposition, correct?	1	cosmetic items.
2	A Yes.		() You did not review the enecitications is that
3	O. D'.1		Q You did not review the specifications, is that
1	Q Did you get any other materials?	3	fair?
4	Did you get testimony or reports from Johnson	3 4	fair? A Fair. No.
4 5	Did you get testimony or reports from Johnson & Johnson witnesses?	3 4 5	fair?  A Fair. No.  Q Do you know if the talcum powders in the Almugren
4 5 6	Did you get testimony or reports from Johnson & Johnson witnesses?  A No, I do not believe I have.	3 4 5 6	fair?  A Fair. No.  Q Do you know if the talcum powders in the Almugren article are distributed it the United States?
4 5 6 7	Did you get testimony or reports from Johnson & Johnson witnesses?  A No, I do not believe I have.  Q Did you get any materials or testimony or	3 4 5 6 7	fair?  A Fair. No.  Q Do you know if the talcum powders in the Almugren article are distributed it the United States?  Do you know if they were?
4 5 6 7 8	Did you get testimony or reports from Johnson & Johnson witnesses?  A No, I do not believe I have.  Q Did you get any materials or testimony or documents from Johnson & Johnson experts on the	3 4 5 6 7 8	fair?  A Fair. No.  Q Do you know if the talcum powders in the Almugren article are distributed it the United States?  Do you know if they were?  A I am unaware as to where they were distributed.
4 5 6 7 8 9	Did you get testimony or reports from Johnson & Johnson witnesses?  A No, I do not believe I have.  Q Did you get any materials or testimony or documents from Johnson & Johnson experts on the issue of heavy metals in talcum powders?	3 4 5 6 7 8 9	fair?  A Fair. No.  Q Do you know if the talcum powders in the Almugren article are distributed it the United States?  Do you know if they were?  A I am unaware as to where they were distributed.  Q Did you see that the article made reference to
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	Page 142		Page 144
1	heavy metals renders talcum powders carcinogenic?	1	fragrances or fragrance chemicals?
2	Do you know sitting here?	2	MS. PARFITT: Objection to form.
3	MS. PARFITT: Objection to form.	3	A No, I am unaware how the fragrances were tested
4	A Sitting here right now off the top of my head, no.	4	for.
5	We can look at that because we have the	5	Again, almost anybody with a nose can smell
6	documentation here.	6	that they are highly fragranced products.
7	Q I didn't see in your report a claim that the IARC	7	Q Did you ask for the Crowley report?
8	Monograph supported the notion that heavy metals	8	A Not specifically. I asked for reports that may
9	in powders renders powders carcinogenic.	9	indicate the presence of other, as I think I
10	Did you make that claim in your report?	10	mentioned before, other components that might be
11	MS. PARFITT: Objection to the form.	11	included in a bottle of talc.
	A I don't make that claim in the report. I would	12	Q The only thing you were given was the Crowley
13	say I do note in here that the report, meaning the	13	report?
14	one published in 2012, focused on Group 1	14	A That is the only thing that I used that I have
15	carcinogens. Those that are viewed to be	15	cited here. I relied on that, to use your
16	carcinogenic in humans. That included arsenic,	16	terminology. There may be other things included
17	fibers, metals, and dust.	17	that I reviewed.
	Q That is also what you talked about earlier with	18	Q And then with respect to your opinions on the
19	regard to asbestos, correct?	19	relevance of these fragrance chemicals, I would
20	That is the monograph you looked at on	20 21	like to better understand if the opinion the
21	asbestos, correct?	22	summary that you have of the Crowley report from 11 to 12, do you see that?
<ul><li>22</li><li>23</li></ul>	A It was that one, but it was also the 2010. And then there was an earlier one as well.	23	A Yes, I do.
		24	Q Are you simply noting what you are reading from
25	Q Okay. Are you aware of any study substantiating the theory that trace amounts of heavy metals	25	Crowley's report?
	Page 143		Page 145
1	cause ovarian cancer?	1	Are you offering these opinions as your
_			
2	MS. PARFITT: Objection to form.	2	own?
3	A I did not do a systematic review looking for	3	A I'm summarizing there what was in Crowley's
3 4	A I did not do a systematic review looking for articles, nor am I aware of any.	3	A I'm summarizing there what was in Crowley's report.
3 4 5 (	A I did not do a systematic review looking for articles, nor am I aware of any.  Q With regards to fragrances, you cite the Crowley	3 4 5	<ul><li>A I'm summarizing there what was in Crowley's report.</li><li>Q In that last sentence you say, "He concluded that</li></ul>
3 4 5 6	A I did not do a systematic review looking for articles, nor am I aware of any.  Q With regards to fragrances, you cite the Crowley report, correct?	3 4 5 6	<ul> <li>A I'm summarizing there what was in Crowley's report.</li> <li>Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties</li> </ul>
3 4 5 6 7 4	A I did not do a systematic review looking for articles, nor am I aware of any.  Q With regards to fragrances, you cite the Crowley report, correct?  A Yes.	3 4 5 6 7	<ul> <li>A I'm summarizing there what was in Crowley's report.</li> <li>Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic."</li> </ul>
3 4 5 6 7 4 8 6	A I did not do a systematic review looking for articles, nor am I aware of any.  Q With regards to fragrances, you cite the Crowley report, correct?  A Yes.  Q Is the sole basis for the passage of your report	3 4 5 6 7 8	A I'm summarizing there what was in Crowley's report.  Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic."  Do you see that?
3 4 5 6 7 4 8 9	A I did not do a systematic review looking for articles, nor am I aware of any.  Q With regards to fragrances, you cite the Crowley report, correct?  A Yes.  Q Is the sole basis for the passage of your report talking about the presence of fragrances and	3 4 5 6 7 8 9	<ul> <li>A I'm summarizing there what was in Crowley's report.</li> <li>Q In that last sentence you say, "He concluded that these chemicals contained inflammatory properties and were potentially carcinogenic."         <ul> <li>Do you see that?</li> </ul> </li> <li>A Yes, I see that statement.</li> </ul>
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	P 146		D 140
1	Page 146 MS. PARFITT: Objection to the form.	1	Page 148 Do you see that?
2	Q You did not independently look at those	2	A Yes.
3	classifications, correct?	3	Q Did you write these sections?
4	A Correct. I did not go back to confirm that they	4	A I did. Well, before I say that, you see that I do
5	were in those categories. That is correct.	5	have big sections quoted in there. Those were
6	Q Do you know if Dr. Crowley considered dosage is	n 6	direct quotes that I pulled off the website.
7	his report?	7	Yes, the rest of this I wrote.
8	Did you look at that?	8	Q On Page 3 of your report you mention that the
9	MS. PARFITT: Objection. Form.	9	mandate that you had in this case was to comment
10	A Dosage of what?	10	on general cause, correct?
11	Q Let me ask a different question.	11	A Yes.
12	A Okay.	12	Q Do these two sections on the discontinuation and
13	Q Do you recall reading if he did any sort of risk	13	the "Facts About Talc" and Cancer-related
14	assessment?	14	Lawsuits, do those fit within your mandate?
15	Do you recall reading that in his report?	15	A Well, let's take them section by section.
16	A A risk assessment associated with fragrance and	16	Which one do you want to talk about first?
17	ovarian cancer?	17	Q Sure. Are you intending to offer expert opinions
18	Q Correct.	18	on the reason Johnson & Johnson discontinued
19	A I do not recall that in that report.	19	talcum powders?
20	Q Are you aware of any studies or data showing that		A No, I'm not going to offer an expert opinion on
21	any of these fragrance chemicals can cause cancer		the reasons why Johnson & Johnson did. I don't
22	A No, I did not do a comprehensive review of that.	22	know what those reasons are.
23	I believe this report, similar to my report here,	23	But I am offering just kind of evidence that
24	was kind of also entered under oath. It was part	24	Johnson & Johnson did recall about 33,000 bottles
25	of a deposition or an expert report.	25	of baby powder in October of 2019 after the FDA
1	Page 147		Page 149
1			
_	Q Understood. With respect to fragrances, to the	1	found asbestos in a bottle of it.
2	extent I've not asked this, did you ask to see if	2	Also, then the statement that was released by
3	extent I've not asked this, did you ask to see if any experts for the defense have commented on or	2 3	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc
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3 4 5 6 7	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?  A Again, I did not request anything from the defense.  Q I asked this question earlier about asbestos.	2 3 4 5 6 7	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.  Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?  A Again, I did not request anything from the defense.  Q I asked this question earlier about asbestos.  With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion?  MS. PARFITT: Objection to form.  A No. My causation opinion, again, is that talcum powder whatever the components are within the bottles, or bottles more accurately, that are used by a person across their lifespan. It is not any one particular component.  Q Let's move on to Page 12 and 13 of your report.  A Yes.  Q You have included on this page two sections of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.  Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?  A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018.  Q Is it your opinion or your guess, or how would you characterize it as to why Johnson & Johnson discontinued talcum powders?  MS. PARFITT: Objection to form.  A When you say they discontinued talcum powders, have they, I mean, they pulled them off their shelves in response to this.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?  A Again, I did not request anything from the defense.  Q I asked this question earlier about asbestos.  With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion?  MS. PARFITT: Objection to form.  A No. My causation opinion, again, is that talcum powder whatever the components are within the bottles, or bottles more accurately, that are used by a person across their lifespan. It is not any one particular component.  Q Let's move on to Page 12 and 13 of your report.  A Yes.  Q You have included on this page two sections of your report.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.  Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?  A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018.  Q Is it your opinion or your guess, or how would you characterize it as to why Johnson & Johnson discontinued talcum powders?  MS. PARFITT: Objection to form.  A When you say they discontinued talcum powders, have they, I mean, they pulled them off their shelves in response to this. I don't have any idea as to why they would
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?  A Again, I did not request anything from the defense.  Q I asked this question earlier about asbestos.  With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion?  MS. PARFITT: Objection to form.  A No. My causation opinion, again, is that talcum powder whatever the components are within the bottles, or bottles more accurately, that are used by a person across their lifespan. It is not any one particular component.  Q Let's move on to Page 12 and 13 of your report.  A Yes.  Q You have included on this page two sections of your report.  One is titled Johnson & Johnson	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.  Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?  A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018.  Q Is it your opinion or your guess, or how would you characterize it as to why Johnson & Johnson discontinued talcum powders?  MS. PARFITT: Objection to form.  A When you say they discontinued talcum powders, have they, I mean, they pulled them off their shelves in response to this.  I don't have any idea as to why they would discontinue sales of talc-based powder. I don't
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	extent I've not asked this, did you ask to see if any experts for the defense have commented on or addressed fragrance chemicals in their reports?  A Again, I did not request anything from the defense.  Q I asked this question earlier about asbestos.  With respect to all of these other components that you mention or allege in your report, fibrous talc, heavy metals, fragrance chemicals, are those constituents necessary to your causation opinion?  MS. PARFITT: Objection to form.  A No. My causation opinion, again, is that talcum powder whatever the components are within the bottles, or bottles more accurately, that are used by a person across their lifespan. It is not any one particular component.  Q Let's move on to Page 12 and 13 of your report.  A Yes.  Q You have included on this page two sections of your report.  One is titled Johnson & Johnson  Discontinuation of Talc-based Johnson's Baby	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Also, then the statement that was released by Johnson & Johnson on their Facts about Talc website.  Q And are you intending to offer opinions on Johnson & Johnson's state of mind or corporate motivations?  A No. I don't believe that I have any intention of offering state of mind or anything. It's really just showing what the response was to the statement earlier about, you know, what I mentioned earlier about the testing in October 2018.  Q Is it your opinion or your guess, or how would you characterize it as to why Johnson & Johnson discontinued talcum powders?  MS. PARFITT: Objection to form.  A When you say they discontinued talcum powders, have they, I mean, they pulled them off their shelves in response to this.  I don't have any idea as to why they would discontinue sales of talc-based powder. I don't study market share or any of that.

	Page 150		Page 152
1	information on its website?	1	A I am not debating as to whether there have been
2	MS. PARFITT: Objection to form.	2	thousands of tests. I don't have that data
3	A I'm not rendering an opinion at all about whether	3	available.
4	it's truthful information or not.	4	I am debating the statement that it says "Our
5	Q Are you intending to offer expert opinions on the	5	talc has also been tested and confirmed to be
6	psychology of consumers to be able to read and	6	asbestos free" simply because that directly
7	decipher information available on these websites?	7	contradicts the U.S. FDA report and that, you
8	A What section are you referring to?	8	know, the company then pulled these from the
9	Q I'm just asking you in general.	9	shelf.
10	Do you have opinions on the psychology of	10	Q Does Johnson & Johnson address the FDA testing on
11	consumers to read information posted on these	11	its website?
12	websites?	12	A I do not know if they address that directly on the
13	MS. PARFITT: Objection. Form.	13	website. I am assuming that they do because, as
14		14	you mention, they have or as I mentioned
15	consumers, that was the first part.	15	here over 3,200 documents. So I do think that
16	And the second part I think I state in this	16	that is among it.
17	part Number 3, Facts About Talc, you know, when,	17	Q Do you dispute that Johnson & Johnson's talc comes
18	again, I was kind of driven to the website looking	18	from ore sources confirmed to meet stringent
19	after the FDA safety report was what got me to	19	specifications.
20	the Johnson & Johnson Facts About Talc.	20	Do you dispute that?
21	In an effort to do just a good review of the	21	MS. PARFITT: Objection. Form.
22	background of again, I'm new to this field.	22	A I have no idea where these sources are, outside
23	I'm certainly new to the litigation world, what	23	of, like I said, most currently I believe it's
24	was actually going on with it, that drove me to	24	sourced in China.
25	this website.	25	Q Do you dispute that talcum powders are routinely
	Page 151		Page 153
1	And, you know, I was, indeed, very surprised	1	tested?
2	to see under the Review of Evidence tab there was	2	This is in the third sentence.
3	a link to a drop box that contained over 3,200	3	MS. PARFITT: Objection. Asked and
4	different documents at that time.	4	answered.
5	And I do offer the opinion that I think it's,	5	A Where is this?
6	that is a lot of documents to sort through for	6	Q This is a block quote that you included.
7	anybody, particularly somebody who does not have	7	It says, "Not only is our talc routinely
8	any training in either science or in the legal	8	tested"
9	system.	9	Do you dispute that the talc is routinely
10	Q Do you understand that those documents are posted	10	tested?
11	and available to the general public, media, other	11	A I don't have knowledge of whether or not it is
12	scientists?	12	routinely tested.
13	A Yes, I understand that.	13	Q And, again, you just agreed with me that Johnson &
14	Q Are you claiming that there is information or	14	Johnson does discuss the FDA 2019 testing on its
15	documents that they should have posted but they	15	website, correct?
16	didn't?	16	That is where you can find it, is that
17	MS. PARFITT: Objection to form.	17	correct?
18	A No, I'm not claiming that at all.	18	A I believe that they have at least a press release
19	Q Your second block quote leads with "Thousands of	19	related to that, yes.
20	tests."	20	Q And they have a statement explaining it, is that
21	Do you see that?	21	correct?
22	A I do.	22	MS. PARFITT: Objection to form.
	Q Are you disputing that there have been thousands	23	Q And explaining Johnson & Johnson's position on it,
23			
23 24 25	of tests that confirm that the products do not contain asbestos?	24 25	correct?  A I don't have that cited here or in front of me so

	Page 154		Page 156
1	I can't say as to whether it's correct or not.	1	referenced.
2	Q And when Johnson & Johnson refers to testing that	2	Q Okay.
3	has confirmed the talc to be asbestos free by a	3	A You know, so looking at it, I would, you know,
4	range of independent laboratories and	4	like, I can't look at it and say, okay, number
5	universities, do you have any reason to dispute	5	I mean, I can because this was the literature I
6	that?	6	reviewed but someone in the public could not
7	MS. PARFITT: Objection. Form.	7	look at it and say, okay, Gonzales, that is
8	A I did not look for any of this information amongst	8	associated with the Sister Study.
9	the 3,200 documents that were in the drop box	9	That is what I meant by direct reference,
10	provided by Johnson & Johnson.	10	that I didn't see the footnote in the body of the
11	Q In the first paragraph in the "Facts About Talc"	11	web page here.
12	section you include the sentence that the website,	12	Q Okay. Then you finish this section with a comment
13	the statement on the website "only includes a	13	that you say, beginning at the end of Page 12 you
14	handful of studies, and none of them are directly	14	said, "Finally, under the 'News' tab, there are
15	referenced."	15	many statements in response to the various ongoing
16	Do you see that?	16	litigations for both mesothelioma and ovarian
17	A Right.	17	cancer, which give the illusion of full
18	Q What does that mean when you say "none of them are	18	transparency."
19	directly referenced"?	19	Do you see that?
20	Did you see on the website there are multiple	20	A Yes.
21	studies actually cited and referenced?	21	Q Is that an expert opinion that you intend to offer
22	A They are cited and referenced, but they don't	22	to the jury?
23	necessarily point to different areas where, like,	23	MS. PARFITT: Objection to form.
24	that exact citation matched to something that was	24	A My expert opinion is really based on the science.
25	printed on the website.	25	It's not necessarily based on any of this
	Page 155		Page 157
1	The link provided at that time was broken,	1	supporting documentation.
2	the one that linked to the American Cancer	2	Q For that sentence, are there any particular news
3	Society. That may be fixed now. When I was	3	statements that you are referring to?
4	looking at this a couple days before this report	4	A No. It's kind of as a whole. There is all of
5	was due, it was unavailable. It was down.	5	this literature or not even literature
6	Q I printed off a copy of the study's tab on the	6	there's all of these statements and different
7	"Facts About Talc" website.	7	things that I think when you look at it you think,
8	A Okay.	8	wow, everything is here.
9	Q I guess I will mark this as Exhibit 11.	9	In my review, it's almost impossible to go
10	(EXHIBIT NUMBER 11 WAS MARKED FOR	10	through it in any sort of systematic way just
11	IDENTIFICATION.)	11	based on how it's arranged and just the sheer
12	Q I'm just trying to clarify the statement in the	12	magnitude of the information there.
13	report when you say "none of them are directly	13	Q There have been a lot of documents in this
14	referenced."  That is the terminology that you used	15	litigation. You understand that?
16	That is the terminology that you used, correct?	16	A Absolutely, yes.
17	A I believe so, yes.	17	Q And you understand that, again, those documents
18	Q Okay. And if we look at the last page of the	18	are posted to be available to those who might be
19	statement whether or not you agree with the	19	interested in seeing them, correct?
20	statement, there is a list of references. It	20	A Correct.
21	directly identifies studies, correct?	21	MS. PARFITT: Objection. Asked and
22	A It directly identifies studies. I'm missing where	22	answered.
23	the footnotes are in here. So I would expect to	23	Q Are you claiming that Johnson & Johnson has
24	see, you know, something, like, with a little	24	violated some sort of industry standard or other
1	footnote in one. That is what I mean by directly	25	standard for posting these materials?
25	TOURIOLE III OHE. THAI IS WHALL HEAD BY UNELLIV		

	Page 158	Page 160
1	MS. PARFITT: Objection. Form.	1 MS. PARFITT: Good place to stop?
2	A That was not my charge, nor my intent.	2 MR. JAMES: Yes.
3	Q You are aware that there are scientists, both	3 (OFF RECORD AT 12:32 P.M.)
4	internally and externally, who disagree with the	4 (AT THIS TIME A SHORT RECESS WAS HELD OFF
5	claims being made in this litigation, is that	5 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS
6	correct?	6 WERE HAD:)
7	MS. PARFITT: Objection.	7 (ON RECORD AT 1:25 P.M.)
8	A I think there are probably scientists internally	8 BY MR. JAMES:
9	and externally that agree with claims on both	9 Q Good afternoon, Dr. Cote.
10	sides being made. That is part of why we are	10 A Hello.
11	here.	11 Q With respect to the methodology that you followed
12	Q Do you agree that Johnson & Johnson has the right	12 in this case, have you applied the same
13	to make public it's views on the scientific	13 methodology that you would in your professional
14	evidence and the merit of this talc litigation?	14 career?
15	MS. PARFITT: Objection to form.	15 A Yes. With respect to the methodology of how I put
16	A I believe that Johnson & Johnson has the right to	16 the report together, how I analyzed the studies, I
17	put forward whatever documentation they want to	started with, you know, a pull from some publicly
18	for whatever purposes they want to.	available database of peer reviewed literature.
19	Q And do you believe that external scientists who	19 I went through the literature. I went
20	disagree with these claims being made in this	20 through the reference section for additional
21	litigation have a right to have a voice in a	21 sources. I started my comprehensive review kind
22	public forum?	of going through the literature study by study.
23	MS. PARFITT: Objection to form.	23 I tried to pull out similar elements like
24	A Yes. So when you say "these claims" what do you	24 sample size and different characteristics about
25	mean?	25 each individual study. And that was my
	Page 159	Page 161
1	Q Sure. I will be more precise.	1 methodology for the association part of the
2	You acknowledge that there are scientists who	2 epidemiologic research.
3	do not think talcum powders cause ovarian cancer,	For the causal part of it, that is, you know,
4	correct?	4 reliant on various different areas, you know, from
5	A Yes, I believe that.	5 anything from looking at biologic plausibility as
6	Q And those scientists can exist both internally	6 we talked about this morning, trying to look at
7	with Johnson & Johnson and externally, is that	7 different lines of evidence there. Trying to look
8	correct?	8 at things like specificity.
9	MS. PARFITT: Objection. Form.	9 There are two different reviews. One is more
10	A Correct. I believe there are scientists both	focused on my area of direct expertise looking at
11	internally and externally that may disagree.	11 the association studies and the epidemiologic
12	Q And although you may not agree with the position	
13	of Johnson & Johnson as reflected in some of these	•
14	statements	causal. That is what we teach. That is what I do
15	A Correct.	before I start, say, writing a grant. That all
16	Q do you believe that the scientists have a right	goes into kind of the rigor of developing a
17	to express their views on the science?	17 research question and the methodology to answer
18	A Yes, I believe scientists have the right to	18 the question.
19	express views on the science.	19 Q Do you agree that in your professional capacity as
20	Q Wrapping this up, do you intend to offer any	20 an epidemiologist that you do not rely on
21	expert opinions on the topics of business	21 unpublished litigation reports from paid experts?
22	practices or corporate conduct?	MS. PARFITT: Objection to form.
23	A I do not plan on offering any expert opinions on	23 A Yes. As an epidemiologist when I'm writing papers
24	those two areas, business practices or corporate	24 and things I do not rely on unpublished litigation
25	conduct.	25 reports.

	Page 162		Page 164
1	Page 162 Q Yes or no, do you agree in the field of	1	Q Do you believe that randomized controls are
2	epidemiology that there is a generally accepted	2	superior to cohort and case control studies?
3	hierarchy of epidemiologic study design?	3	Just yes or no.
4	A No.	4	A I can't answer that yes or no. It depends on the
5	Q Have you ever seen a hierarchy design illustration	l .	research question. Randomized control trials are
6	in an epidemiologic textbook?	6	outside of the scope of epidemiology.
7	A Yes, I'm aware of what you are referring to.	7	Epidemiology is an observational science. We do
8	Q Have you ever handed one out to your students in	8	not assign different people to groups.
9	class?	9	That study design is not even really
10	MS. PARFITT: Objection to form.	10	considered as an epidemiologic type of study.
11	A I do not believe we have ever handed one out, no.	11	Q Have you ever published an epidemiologic case
12	Q Have you	12	control study on a topic of interest and in that
13	A I co-teach.	13	study cited the need for further research on
14	Q Have you ever taught that prospective cohort	14	that same topic, but with prospective cohort
15	studies, in general, are viewed to have a superior	15	data?
16	design as compared to retrospective case control	16	A You know, I have somewhere around 140 different
17	studies?	17	publications. I can't say I have ever said we
18	A I have definitely heard that before. I have seen	18	need prospective data.
19	it in some textbooks.	19	I think there are certain cases where we
20	But, no, I do not believe I have taught, nor	20	could. In almost all of our studies we do say we
21	do I believe that one is superior to the other.	21	need additional research in that area.
22	Both of them how we have always taught it is	22	Q I will mark as Exhibit 12 a 2016 paper in the
23	almost, we separate them out into case control and	23	British Journal of Cancer on Analgesic Medication
24	cohort into two columns. And we talk about the	24	Use and Risk Of Epithelial Ovarian Cancer In
25	strengths of each one.	25	African-American Women.
	Page 163		Page 165
1	Page 163 So, like, for a cohort study, the strength of	1	Page 165 (EXHIBIT NUMBER 12 WAS MARKED FOR
1 2		1 2	-
	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.		(EXHIBIT NUMBER 12 WAS MARKED FOR
2	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.  That exposure can be something like in the Women's	2	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)
2 3	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.	2 3	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.
2 3 4	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.  That exposure can be something like in the Women's	2 3 4	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.) A Okay. MS. PARFITT: That is 2016.
2 3 4 5	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.  That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known	2 3 4 5	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.
2 3 4 5 6 7 8	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure. That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known occupational exposure. And then you can study	2 3 4 5 6	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.  Q So here you are studying analgesics and risk of
2 3 4 5 6 7 8 9	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure. That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known occupational exposure. And then you can study many outcomes. That is the strength of the cohort	2 3 4 5 6 7 8 9	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.  Q So here you are studying analgesics and risk of ovarian cancer, correct?
2 3 4 5 6 7 8 9	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.  That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known occupational exposure. And then you can study many outcomes. That is the strength of the cohort study, is many outcomes.	2 3 4 5 6 7 8 9	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.  Q So here you are studying analgesics and risk of ovarian cancer, correct?  A Yes.
2 3 4 5 6 7 8 9 10 11	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure.  That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known occupational exposure. And then you can study many outcomes. That is the strength of the cohort study, is many outcomes.  Case control, what that is, is you can study	2 3 4 5 6 7 8 9 10 11	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.  Q So here you are studying analgesics and risk of ovarian cancer, correct?  A Yes.  Q Flip it to Page 824. Just to be clear, you are an
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So, like, for a cohort study, the strength of the study is, well, first, how you would select your study population is based on an exposure. That exposure can be something like in the Women's Health Initiative, it was being a post-menopausal woman.  Or it could be based on some sort of known occupational exposure. And then you can study many outcomes. That is the strength of the cohort study, is many outcomes.  Case control, what that is, is you can study one outcome because you select your population based on whether or not they have the disease of interest.  And then you can study many different exposures and that is the strength of that. They tend to be case control studies are better for rare diseases. Cohort studies are better for more common diseases.  That is how we teach them versus a hierarchy of this is the best and this is the worst. Both of those, case control and cohort, are both	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION.)  A Okay.  MS. PARFITT: That is 2016.  MR. JAMES: That is 2016.  MS. PARFITT: Exhibit 12?  MR. JAMES: Yes.  Q So here you are studying analgesics and risk of ovarian cancer, correct?  A Yes.  Q Flip it to Page 824. Just to be clear, you are an author on this paper?  A Yes.  Q You see here that on Page 824 that in the top and last paragraph it says, "In conclusion, this study supports previous evidence that any NSAID use, but not acetaminophen, is inversely associated with EOC risk."  Do you see that?  A I do, yes.  Q And then the last sentence says of that same paragraph "Future research, specifically in

		Page 166			Page 168
1		underrepresented racial groups."	1	COI	rrect?
2		Do you see that?	2		MS. PARFITT: Objection.
3	Α	I do.	3	A C	Correct.
4	Q	Is the reference to the cohort studies in that	4	Q Y	ou do agree that case control studies may be more
5	_	sentence, is that referencing prospective cohort	5		one to recall bias, correct?
6		data?	6	•	MS. PARFITT: Objection. Form.
7	A	I would believe so, yes.	7	A M	More prone compared to what?
8		Again, this paper specifically pertains to a risk	8		ook at your report on Page 8.
9		factor for ovarian cancer, correct?	9	A Y	
10	A	Correct.	10	Q N	lear the bottom of Page 8 you have a definition
11	Q	The language of the paper of which you are a	11	for	recall bias, correct?
12		co-author is that the cohort data is, quote,	12	A Y	es.
13		needed in order to fully elucidate the impact.	13	Q A	and in the third line down you say, "Case control
14		Do you see that?	14	stu	idies may be more prone to this type of bias."
15	A	Yes. The final sentence.	15		Do you see that?
16	Q	And the one that I just read, again, the	16	A Y	es.
17		terminology there that you use, or the authors	17	Q S	o here you are referring to recall bias, is that
18		including you, have used "is needed," correct?	18	COI	rrect?
19	A	Correct.	19	A T	That is correct.
20		Here in this paper you are at least acknowledging	20	Q S	o, again, you would acknowledge that case control
21		the need for prospective cohort data on an ovarian	21	stu	ndies may be more prone to recall bias, is that
22		cancer risk factor, correct?	22	con	rrect?
23	A	Yes.	23		MS. PARFITT: Objection. Form.
24	Q	And you want that data so you can fully elucidate	24	A I	would note that in addition to the statement
25		the impact of that risk factor, correct?	25	tha	at the key difference is whether recall varies
		Page 167			Page 169
1		Correct.	1	by	y the outcome of interest.
2		This paper was authored before you were retained			And so there are certain and about what
3		as an expert in this litigation, correct?	3		e exposure is. There are certain exposures that
4		Correct.	4		ay be more prone to recall bias than other
5	_	Has your opinion on the value of prospective	5		xposures.
6		cohort data to evaluate ovarian cancer risk factor	6		Sure. But just, again, quoting the language of
7		changed since you wrote this paper?	7		our report, it is not my language, you do have in
8		No, I believe that there is value to both case	8	•	our report, "Case control studies may be more
9		control and cohort studies with respect to looking	9	pr	rone to this type of bias."
10		at risk factors for ovarian and other cancers.	10	.1	There you are referring to recall bias in
11		But here you noted that cohort data was needed to		th	at sentence, correct?
12		fully elucidate the impact of the risk factor,	12	۸ ٬	MS. PARFITT: Objection.
13		MS DARRITT: Objection	13		Correct.
14	٨	MS. PARFITT: Objection.	14		As you know, at the bottom it says, "The key
15		That is the statement as written. I don't	15		fference is that recall varies by the outcome of
16 17		necessarily have to a hundred percent agree with	16	A Y	terest," correct?
18		the word "fully."  The language used in that sentence imports that			
19		The language used in that sentence imports that cohort data, right, is needed, correct?	18 19		And so there are some things that are more prone recall bias than others, correct?
20		MS. PARFITT: Objection. Asked and	20		Some exposures.
21		answered.	21		Fair enough. A more scientific term.
22	Δ	Cohort data is needed.	22		Yes.
23	Q				There are some exposures that are studied in epi
24	_	as an author, you want cohort data to fully	24		at are more prone to recall bias, is that
25		elucidate what is going on with analgesics,	25		orrect?
(		The state of the s			/11 TTV

	Page 170		Page 172
1	A Yes.	1	A So when you are asking me to judge is ever never
2	Q And certainly that would be exposures that, for	2	best or not, there is always, when we are writing
3	example, are not verifiable by medical records,	3	the questionnaires for the women there is usually
4	correct?	4	a timeframe given. We need to look at the
5	MS. PARFITT: Objection. Form.	5	timeframe.
6	A I don't know if you could say that. I mean, the	6	Q Do you believe for purposes of recall bias, I
7	reason that you would use medical records would be	7	think this is what you just said, but for purposes
8	to confirm something.	8	of recall bias in the talc studies, ever never
9	I don't know if those factors that you	9	measurement is subject to less recall bias than
10	confirm on medical records would be more or less	10	measurements by frequency or duration or
11	prone to recall bias.	11	cumulative life exposures?
12	You would be talking about a way to help	12	A Again, based on timing and some other factors,
13	address or reduce recall bias, but it does not	13	ever never may be less likely to have recall bias
14	necessarily mean that factors that are available	14	introduced.
15	through medical record review are more or less	15	Some of that is just based on the timing of
16	prone to recall bias.	16	when the question is being asked of the women and
17	You would just have an additional way to	17	based on kind of the window or the timeframe you
18	verify them.	18	are asking the question.
19	Q You are aware that in the literature, whether or	19	So it's hard to just give a one yes or no
20	not you agree with it or not, but in the	20	answer there.
21	literature, many authors have noted that talc	21	Q On Page 10 and Page 11 of your report you have a
22	usage is one of the outcomes that is especially	22	section on the Risk Factors. Flip to that for me.
23	prone to recall bias, correct?	23	A Okay.
24	MS. PARFITT: Objection. Form.	24	Q In there you set forth a paragraph or a discussion
25	A I would be interested in seeing that literature.	25	of modifiable risk factors for ovarian cancer and
	Page 171		Page 173
1	One of the things that I had read, I want to say	1	non-modifiable risk facts, correct?
2	One of the things that I had read, I want to say it was one of O'Brien's papers, was that	2	non-modifiable risk facts, correct?  A Correct.
2 3	One of the things that I had read, I want to say it was one of O'Brien's papers, was that especially for ever never exposure they felt like	2 3	non-modifiable risk facts, correct?  A Correct.  Q Do those listings represent your professional
2 3 4	One of the things that I had read, I want to say it was one of O'Brien's papers, was that especially for ever never exposure they felt like that was an exposure that was not particularly	2 3 4	non-modifiable risk facts, correct?  A Correct.  Q Do those listings represent your professional judgment on the current list of risk factors for
2 3 4 5	One of the things that I had read, I want to say it was one of O'Brien's papers, was that especially for ever never exposure they felt like that was an exposure that was not particularly prone to recall bias.	2 3 4 5	non-modifiable risk facts, correct?  A Correct.  Q Do those listings represent your professional judgment on the current list of risk factors for ovarian cancer?
2 3 4 5 6	One of the things that I had read, I want to say it was one of O'Brien's papers, was that especially for ever never exposure they felt like that was an exposure that was not particularly prone to recall bias.  Q Do you believe ever never is the best way to	2 3 4 5 6	non-modifiable risk facts, correct?  A Correct.  Q Do those listings represent your professional judgment on the current list of risk factors for ovarian cancer?  A Yeah. I mean, I pulled this from a couple
2 3 4 5 6 7	One of the things that I had read, I want to say it was one of O'Brien's papers, was that especially for ever never exposure they felt like that was an exposure that was not particularly prone to recall bias.  Q Do you believe ever never is the best way to measure talc usage?	2 3 4 5 6 7	non-modifiable risk facts, correct?  A Correct.  Q Do those listings represent your professional judgment on the current list of risk factors for ovarian cancer?  A Yeah. I mean, I pulled this from a couple different reviews, like an umbrella review and
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D 171		D 177
Page 174  1 A Yes. I list one right here. Lynch syndrome or	1	Page 176 kind of takes away the majority of the tissue that
2 NNPCC, that is one. There are other rare familial	2	is at risk. Leaving the fallopian tubes you may
3 syndromes that also increase risk of ovarian	3	still may be at risk. Even removal of both
4 cancer and other cancers.	4	sometimes, you know, there is tissue remaining.
5 Q Are you familiar with the emerging literature on	5	But is there a hormonal component in there?
6 the FANC mutation as a risk factor for ovarian	6	Yes.
7 cancer?	7	Q Have you seen literature talking about how, for
8 A I don't know if I'm, if I would classify myself as	8	example, the removal of tubes can lessen the risk
9 familiar with that, no. I did not do a review of	9	because the fimbriaed ends of the tubes are no
10 the genetics of ovarian cancer.	10	longer present?
11 Q Have you seen a paper or papers where FANC is now	11	A That it is a disruption, yes.
being discussed as a genetic risk or a potential	12	Q And that is where cancer is thought to some
13 risk factor for ovarian cancer?	13	people have posited that that is where high grade
14 A I cannot pull one from my brain with an author or	14	serous cancer is thought to originate from,
even a date right now. I would be happy if you	15	correct?
have one available that I would review it and give	16	A Right. Certain subtypes of EOC may originate in
17 you my thoughts.	17	the fallopian tubes, yes.
18 Q In this list of risk factors that you have here,	18	Q Have you published on other you have published
19 just to confirm again in this list, you have not	19	on other potential risk factors for ovarian
20 listed asbestos fibrous talc, heavy metals, or	20	cancer, correct?
21 fragrances as standalone risk facts, is that	21	A Yes. Probably at least twenty different ones if I
22 correct?	22	had to ballpark a number.
23 MS. PARFITT: Objection.	23	Q Okay. I have glanced at a few of them. I will
24 A As standalone risk factors, no. But general use	24	tick them off and ask if those sound familiar.
25 of talcum powder is, yes.	25	A Okay.
Page 175		Page 177
1 Q We have talked about those topics in sufficient	1	Q I have seen some literature where you looked at
2 detail this morning, correct?	2	overall healthy dietary pattern, high intake of
3 A Yes, we did.	3	total sugars, cigarette smoking among
4 Q With respect to your commentary on hysterectomy	4	African-Americans, obesity and excessive adult
5 and oophorectomy do you see that?	5	weight gain, pro-inflammatory diets, high calcium
6 A Yes.	6	low lactose diets, and family history of
7 Q Do you recognize that one explanation for	7	pancreatic cancer.
8 reduction in risk associated with hysterectomy,	8	Are all of those topics that you recall
9 oophorectomy has been a less than hormonal risk as	9	having published on over the course of your
a result of those procedures?	10	career?
11 A Meaning? Can you rephrase?	11	A Yes. I think all of them except for the one at
12 Q That was a terrible question. Let me start over.	12	the very end were part of the AACEs study in
So you have commented here about protective	13	African-American women.
14 effects from various procedures, correct?	14	The one at the end was very early on in my
15 A Yes.	15	career. It was a case control study of pancreatic
16 Q You understand in the literature that there have	16	cancer. At the time it was it's more standard
been various hypothesis posited as to why that may	17	now, but at the time I think they were exploring
18 be so, correct?	18	other cancers that are associated with BRCA1 and
19 A Correct.	19	BRCA2 and other familial syndromes.
20 Q Have you seen some literature talking about how	20	We were able to show that in the pancreatic
21 those procedures lessen the hormonal impact on	21	families they had higher risk for ovarian cancer,
ovaries or the surrounding tissues?	22	too.  O Are any of the feature that Livet mentioned
23 A Well, an oophorectomy is a removal of the ovaries.	23	Q Are any of the factors that I just mentioned
24 Vos that would for many thin It I	201	tactore that you recognize or consider to be
<ul><li>Yes, that would for many things. It reduces</li><li>your hormone levels systemically. Then it also</li></ul>	24 25	factors that you recognize or consider to be causal?

Page 178 Page 180 1 A I've not done that sort of review. So I -- can Q With respect to migration, your opinions on 2 migration, we will shift to that. Okay? 2 you repeat the list? We can go one by one. 3 A Sure. 3 Q Sure. Let me ask you about specific ones. 4 Q Have you cited any studies that mimic what is 4 Do you consider cigarette smoking among 5 being alleged here, which is that talc applied 5 African-Americans to be causally associated with 6 perineally can migrate up the female genital serous ovarian cancer, which is what I saw in your 6 7 7 tract? paper? 8 A Causally associated? I've not done that analysis 8 A Let's look at that section where I discuss this. Q I will go through some of those studies in a recently so I would say no, I'm not aware that 10 there is a causal association. I would not make 10 moment. 11 A Yeah. 11 that statement. Q My question is, let me rephrase it. 12 Q Do you consider obesity to be causally associated 12 13 with ovarian cancer? 13 Have you seen any studies that demonstrate 14 that following perineal talc application that talc 14 A Again, I have not reviewed it comprehensively so I 15 is migrating up the female genital tract? 15 would not make that statement. 16 MS. PARFITT: I will object to form. 16 Q When you have authored papers on other risk A I've not seen those studies other than the one we 17 factors for ovarian cancer or potential risk 17 18 quoted in here that was about the use of talcum 18 factors, have you always adjusted for talc as a 19 confounder? 19 powder or talc on gloves, like examination gloves. 20 But as for, you know, trying to get a group 20 A How we kind of create our statistical models, 21 of women to apply talc and then looking to see at 21 there are kind of two different ways. They are 22 complementary and we usually use them together. 22 one hour, twelve hours, twenty-four hours if it 23 has migrated up into the reproductive system, no, 23 The first is you come up with a number of 24 24 risk factors that apriori you know are probably I've not seen that type of study published. 25 I think that would be very hard to get 25 going to differ between your cases and controls. Page 179 Page 181 1 So when you adjust the models you are not approved by a review board. 1 2 putting in things that you know or believe to be Q The studies that you do cite on Page 13 of your 3 risk factors. They can be things like in the 3 report for migration, in the first paragraph you 4 4 AACEs study we adjust it by the site. By site I cite a study that deals with carbon, you cite a 5 mean geographic location was always included in 5 study that deals with ink, and you cite a study 6 there just in case there were differences between 6 that deals with radioactive tracers. 7 7 the cases and controls that were unaccounted for. Those are the three that you cite in the 8 8 The second way is to look at univariate first paragraph, correct? 9 A Yes. 9 analyses. That is looking at one exposure and 10 your outcome of interest one at a time. You set a 10 Q And do those studies mimic what is being alleged 11 threshold based on, you know, sometimes it is not 11 12 even the regular P value of 0.5 for statistical 12 MS. PARFITT: Objection to form. 13 significance. Sometimes it is higher than that 13 Q That perineal talc migrates up the genital tract. 14 because these are exploratory analyses. You can 14 Do they mimic? 15 make the decision to include those factors into 15 Would you agree with that characterization or 16 your model. 16 not? Yes or no? 17 So it's usually some combination of apriori 17 A No. The goal was not to mimic. It was to set the 18 and things that differ between your cases and 18 stage and build the support for the idea, you 19 controls. They are not necessarily known risk 19 know, in the first one, which was in 1957, that 20 20 factors. describes the cooperation of the musculature of

46 (Pages 178 - 181)

the female genital tract as a way to move sperm,

So it's really trying to show a history of

what we knew about kind of normal female

into where it can be ultimately fertilized.

you know, up into, you know, into the vagina and

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So as to have I always put talc in, getting

back to that piece of the question, I can't say we

have always put talc in. I did not review twenty

odd at least papers in that area to see if talc

was always included.

21

22

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Page 182	Page 18
1 functioning at the time.	1 answered.
2 Q The Egli and Newton paper in particular, that	2 A No. I believe that this study, is, as I stated
3 study involved the deposition of carbon particles	previously, it's adding support to the idea that
4 at the top of the vagina, correct?	4 particles of various types can move from one are
5 A Yes.	5 of the human female reproductive tract into
6 Q The studies in the first paragraph that you cited	6 another area of the reproductive tract.
7 are all significantly dissimilar as to what is	7 Did they test talc? No. Here they used
8 being alleged here, correct?	8 carbon particles. I realize those are two
9 MS. PARFITT: Objection. Form.	9 different compounds.
10 A How are they dissimilar?	10 Q And under highly different conditions, correct?
11 Q Let's mark the Egli paper as Exhibit 13.	Here we have the use of oxytocin and that is
12 (EXHIBIT NUMBER 13 WAS MARKED FOR	very different than what is being alleged here,
13 IDENTIFICATION.)	13 correct?
14 Q On the second page, Page 152, under the method	MS. PARFITT: Objection. Form.
section do you see that second paragraph where it	15 A I don't know what you are alleging here.
16 says "Three women"?	Oxycontin, from my understanding, makes musc
17 A Yes.	contractions. That's my understanding. That is something that they use to induce labor.
18 Q So they note that there was general anesthesia.	ę ;
19 The patient was placed in the how do you 20 pronounce that lithotomy position?	There are other things that cause muscle contractions of the uterus like uterine cramps
3 1	when a woman has her period.
21 A Sounds good.	There are more similarities here that I think
<ul><li>Q "With her head tilted downward. The speculum was</li><li>introduced into the vagina, and three to four</li></ul>	this question, this question alludes to.
24 millimeters of sterile carbon particles-Dextran	24 Q Do you agree or disagree that the study cited in
25 suspension were deposited in the posterior fornix.	25 this first paragraph of the biological mechanism
Page 183  1 At the same time one milliliter of oxytocin was	Page 18 1 section of your paper I will rephrase it.
2 given intramuscularly."	2 Do you believe that the studies in the first
3 Do you see that?	3 paragraph cited in that section are comparable to
4 A Yes.	the allegation that perineal talc migrates up the
5 Q Is that in any way similar to what is being	5 female genital tract?
6 alleged here that perineal, that a woman who	6 Are they comparable?
7 applies talcum powders to her perineum, is it in	7 MS. PARFITT: Objection. Asked and
8 any way similar to the hypothesis that as a result	8 answered.
9 of applying talc to the perineum, that talc can	9 A Yes, I agree they are comparable based on the idea
10 migrate up the genital tract?	that there are, I should says lines of evidence
11 MS. PARFITT: Objection.	that we, I, am trying to use in this report, which
12 A What this paper, and why this paper was cited, was	is different substances can move up the female
to build support and a line of evidence suggesting	13 genital tract.
<ul> <li>to build support and a line of evidence suggesting</li> <li>that the tract was open.</li> </ul>	<ul><li>13 genital tract.</li><li>14 I believe that that supports the idea that</li></ul>
11 66 6	-
14 that the tract was open.	I believe that that supports the idea that
<ul> <li>that the tract was open.</li> <li>That things could be transmitted from one</li> </ul>	I believe that that supports the idea that talc could move up the female genital tract.
that the tract was open.  That things could be transmitted from one area of the female genital tract to other distant	I believe that that supports the idea that talc could move up the female genital tract.  O Do you believe that the "idea" is the word that
that the tract was open.  That things could be transmitted from one area of the female genital tract to other distant areas of the female genital tract.	I believe that that supports the idea that talc could move up the female genital tract.  Q Do you believe that the "idea" is the word that you use, is that an idea that has been
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	Page 186		Page 188
1	Q Do you believe the claim that talc applied	1	MS. PARFITT: Objection. Form.
2	perineally can migrate up the female genital tract	2	A I'm happy to examine each of these. I don't
3	to the ovaries?	3	remember details in their method section or, you
4	Do you believe that claim is scientifically	4	know, discussions about limitations regarding,
5	proven, is still a theory, or is a hypothesis?	5	like, the handling of these specimens after they
6	A I believe based on let's go down to the third	6	have been removed, kind of the processing piece of
7	paragraph here.	7	it.
8	"Human studies provide evidence in that talc	8	Q Do you have expertise in the tissue processing
9	particles have been identified in ovarian tissue	9	portion of this?
10	in women with and without ovarian cancer."	10	A I have experience with it. I don't know if I
11	I believe so there was a 1971 report from	11	would say I have expertise. But most of my
12	Henderson all of the way down to I'm trying to	12	research work has been in paraffin-embedded
13	look at the more frequent ones from February of	13	tissue.
14	2020 that show that talc can migrate. I feel at	14	Certainly right now I oversee a large tissue
15	this point to me that is proof.	15	bank of fresh frozen and formula fixed tissue.
16	Q With respect to your discussion of animal studies	16	I'm very familiar with standard operating
17	you say on Page 13 "Animal studies do not provide	17	procedures that are used in handling specimens
18	consistent evidence of translocation of talc - it	18	like this.
19	may be species-dependent."	19	Q So you are aware there are multiple steps in the
20	A Yes.	20	tissue processing?
21	Q Bottom line, animal studies, do you believe animal	21	A Absolutely.
22	studies demonstrate migration or translocation of	22	Q In which foreign particulate matter can be
23	talc?	23	introduced into the specimens, and not just on the
24	A I believe that in certain species they do and in	24	surface of the block, but embedded in the block.
25	certain species they do not. It is species	25	You are aware of that, correct?
	Page 187		Page 189
1	Page 187 dependent, as I stated in the last sentence.	1	MS. PARFITT: Objection to form.
1 2		1 2	-
	dependent, as I stated in the last sentence.		MS. PARFITT: Objection to form.
2	dependent, as I stated in the last sentence.  Q Okay. Right. Do the animal studies as a whole	2	MS. PARFITT: Objection to form.  A I'm aware that if the standard operating
2 3	dependent, as I stated in the last sentence.  Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from	2 3	MS. PARFITT: Objection to form.  A I'm aware that if the standard operating procedures are being followed, that introduction
2 3 4	dependent, as I stated in the last sentence.  Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration?	2 3 4	MS. PARFITT: Objection to form.  A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just
2 3 4 5	dependent, as I stated in the last sentence.  Q Okay. Right. Do the animal studies as a whole support your opinion on migration or detract from your opinion on migration?  MS. PARFITT: Objection. Form.	2 3 4 5	MS. PARFITT: Objection to form.  A I'm aware that if the standard operating procedures are being followed, that introduction that you spoke of of foreign material, let's just say, can be absolutely minimized.
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	Page 190		Page 192
1	in a sterile environment.	1	introduction of this foreign object.
2	Q Does any gynecologic pathologist that processes	2	Q With respect to the 2019 McDonald study, do you
3	tissue specimens to make diagnoses or make other	3	see that reference at the bottom of Page 13?
4	commentary prognosis on the tissue or the tumor,	4	A Yes.
5	is any gynecologic pathologist processing these	5	Q That is one of the papers we talked about earlier
6	specimens in a particulate-free sterile	6	that was authored by experts for the plaintiffs.
7	vacuum-hooded environment, is that happening?	7	Do you recall that?
8	MS. PARFITT: Objection. Form.	8	A Yes, I recall that.
9	A I can't speak to what happens clinically. I am	9	MR. JAMES: I will mark McDonald as
10	not in the gross room. I'm not a gynecologic	10	Exhibit 14.
11	pathologist.	11	(EXHIBIT NUMBER 14 WAS MARKED FOR
12	Q Do you agree that if there were particulate in a	12	IDENTIFICATION.)
13	human tissue invivo that there would be biological	13	A Okay.
14	reaction to that particle?	14	Q And you recall reviewing this study for the
15	1	15	preparation of your report, correct?
16		16	A Yes, I do.
17	Can you be more specific?	17	Q Did you have any concerns with the study?
18	Q I don't think so.	18	Did you identify any weaknesses in it?
19	· ·	19	MS. PARFITT: Objection. Compound.
20	•	20	You can answer.
21	outside of your expertise? If you don't know, you	21	Q Either one. Give me a concern or a weakness.
22	can answer that way.	22	A As an epidemiologist, I would worry about a sample
23 24	Do you know if foreign particulate is	23	size of five. I would consider that a limitation.
25	introduced into tissue invivo, will a foreign particle cause a biological reaction?	24 25	Q Do you have any concerns with how the cases were
23		23	selected?
١,	Page 191	1	Page 193
1	MS. PARFITT: Objection. Form.  A Again, that question is absolutely broad. You	1 2	A I'm going to review that. No, I don't believe so.  They were clear. They all had a history carcinoma
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	know, when you say introduced invivo, are you	3	ovarian cancer and history of perineal talc use.
4	talking about, like, a cell line? When you talk	4	Q So the exposure status was known to the
5	about a foreign object being introduced, you know,	5	researchers, correct?
6	any kind of reaction?	6	A Correct.
7	It's way too broad for me to say yes, no, or	7	Q Is that a flaw?
8	even maybe.	8	A No. In the manner of, you know, you don't know
9	Q So my question is not about invitro. It's not	9	necessarily who on the research team did the
10	about cell studies. It's about invivo. In a	10	patient selection.
11	living human being if foreign particles such as	11	If they are all being, I mean, I'm not sure
12	talc were getting into tissue, would there be	12	how else you would get this tissue. So I don't
13	evidence of biological reaction either through	13	see that necessarily as a flaw. They describe
14	granulomatous reaction, through macrophages?	14	what they did.
15	Do you know that? Is that outside of your	15	That is the idea behind material and methods.
16	expertise?	16	Could somebody reproduce this work?
17	MS. PARFITT: Objection. Form.	17	Q Turn to Page 591 of the article. The second page.
18	A I know what I know from reading the literature and	18	A Yes.
19	from understanding just basic biology that what	19	Q The bottom full paragraph starts with "Tissue
20	you are alluding to from what I can gather from	20	digestion."
1		21	Do you see that?
21	your question is host response, like, the actual		
21 22	person, the host's response to this foreign body.	22	A I do.
21 22 23	person, the host's response to this foreign body.  That may differ for everybody. You can't	22 23	<ul><li>A I do.</li><li>Q So in this paragraph they are talking about tissue</li></ul>
21 22	person, the host's response to this foreign body.  That may differ for everybody. You can't	22	<ul><li>A I do.</li><li>Q So in this paragraph they are talking about tissue digestion.</li></ul>

	Page 104		Page 106
1	Page 194  Q And I want you to look at that last sentence for	1	Page 196 that study to see if they had negative controls.
2	me.	2	
3	A Okay.	3	
4	Q It says, "Also, even though the authors stated	4	
5	they used talc-free gloves, contamination from	5	
6	laboratory processing sources outside the authors'		A Let me see what they were actually trying to test.
7	own environment could have also played a role,	7	
8	given the widespread occurrence of talc in many	8	A In general, no. There can be study designs that
9	settings."	9	
10	A I see that.	10	have interventional only arms of other kinds of
11	Q They are talking about the Heller study. That is	11	studies.
12	cited in your report.	12	Q So if the Johnson study did not use negative
13	Do you recall that study?	13	controls that would not be methodologically
14	A Yes.	14	concerning to you?
15	Q Again, Heller is the study that looked at particle	15	MS. PARFITT: Objection.
16	burden in both users and non-users. They found	16	A No, it would not. Based on as long as it was
17	talc in everyone.	17	disclosed. And, again, it's really based on what
18	Do you recall that?	18	1 1 11
19	A I do.	19	
20	Q So this last sentence certainly supports the	20	Q And for Johnson and for McDonald, again, did you
21	notion that processing labs are not particle free	21	see whether or not methodologically they
22	environments, correct?	22	•
23	MS. PARFITT: Objection.	23	
24	A They are stating here that, yes, there could be	24	
25	unassessed exposures including, I guess it's a	25	richet their did to rion lineari turi to this is on
			what they did to, you know, try to this is on
	Page 195		Page 197
1	little bit up farther, contamination from	1	Page 197 Page 592. Let's see. That is their second
2	little bit up farther, contamination from laboratory or other sources.	1 2	Page 197 Page 592. Let's see. That is their second paragraph there.
2 3	little bit up farther, contamination from laboratory or other sources.  Q Got it. And you said your own lab does not	1 2 3	Page 197 Page 592. Let's see. That is their second paragraph there. They talk about removing surface
2 3 4	little bit up farther, contamination from laboratory or other sources.  Q Got it. And you said your own lab does not advertise itself as a particle free environment?	1 2 3 4	Page 197 Page 592. Let's see. That is their second paragraph there. They talk about removing surface contamination. They talk about different ways
2 3 4 5	little bit up farther, contamination from laboratory or other sources.  Q Got it. And you said your own lab does not advertise itself as a particle free environment?  A Correct. Yes.	1 2 3 4 5	Page 197 Page 592. Let's see. That is their second paragraph there.  They talk about removing surface contamination. They talk about different ways that they washed, you know, surfaces in distilled,
2 3 4 5 6	little bit up farther, contamination from laboratory or other sources.  Q Got it. And you said your own lab does not advertise itself as a particle free environment?  A Correct. Yes.  Q Do you know if they used any negative controls i	1 2 3 4 5 n 6	Page 197 Page 592. Let's see. That is their second paragraph there.  They talk about removing surface contamination. They talk about different ways that they washed, you know, surfaces in distilled, deionized water and so on.
2 3 4 5 6 7	little bit up farther, contamination from laboratory or other sources.  Q Got it. And you said your own lab does not advertise itself as a particle free environment?  A Correct. Yes.  Q Do you know if they used any negative controls it the study?	1 2 3 4 5 n 6	Page 197 Page 592. Let's see. That is their second paragraph there.  They talk about removing surface contamination. They talk about different ways that they washed, you know, surfaces in distilled, deionized water and so on.  They stored them in closed containers, so
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	D 100		D 400
1	Page 198 were published in peer reviewed journals by	1	Page 200
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	· · · · · · · · · · · · · · · · · · ·		But it would have to be pretty heavy
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	individuals with expertise in these types of, you know, bio specimen handling and laboratory	2	contamination from what I'm looking at here.
		3	Again, the fact that they have provided enough
4	processing, that if they made it through peer	4	detail to make it to peer review, that they have
5	review and addressed the concerns that the	5	done their due diligence, and the fact that they
6	reviewers potentially brought up about all of the	6	said here on Page 529 that the measurements were
7	different methods used in the study, that I would	7	essentially consistent and reproducible, this is
8	be comfortable that the appropriate steps were	8	talking about what they found in the Johnson &
9	taken.	9	Johnson and the Caswell-Massey talcum powders.
10	Q Okay. Because it went through the peer review	10	The fact that they also have some, it's an
11	process?	11	internal control not in the way that we are
12	A Yes, because it went through the peer reviewed	12	talking about controls meaning separate cases, but
13	process.	13	oftentimes things like replication of your own
14	Q Do you have that standard for any article that is	14	findings, you will do things in triplicate, for
15	in a peer review journal, that if it made it	15	example. That another type of internal control.
16	through a peer review that you can be happy or	16	And that would suggest to me that the
17	comfortable with the propositions set forth in	17	conclusions of the study are supported by the
18	that article?	18	results.
19	MS. PARFITT: Objection to form.	19	Q You are aware that in 2010 the IARC Monograph that
20	A Asking about any article in the whole wide world	20	was published, they concluded that the evidence
21	of literature, I would still want to review	21	for retrograde transfer of talc to the ovaries in
22	everything individually myself to the best of my	22	normal women was weak.
23	understanding before I said, like, yes.	23	You are aware that they made that conclusion?
24	Just because it made it through peer review	24	A I would like to see the whole statement.
25	it does not mean that it is a hundred percent	25	Q Let me ask you this. Do you believe that the
	Page 199		Page 201
1	perfect. We all find little errors in our own	1	evidence for retrograde transport of talc to the
2	reports and things as we go through them.	2	ovaries in normal women is weak?
3	But overall with the general methodology with	3	
4	the methods proposed having a peer reviewed	-	A No.
1	the methods proposed having a peer reviewed	4	
5	publication increases my confidence of the study		<ul><li>A No.</li><li>Q You cite the Keskin study on Page 14. I will mark that as Exhibit 16.</li></ul>
5 6		4	Q You cite the Keskin study on Page 14. I will mark
	publication increases my confidence of the study findings.	4 5 6	Q You cite the Keskin study on Page 14. I will mark that as Exhibit 16.  (EXHIBIT NUMBER 16 WAS MARKED FOR
6 7	<ul><li>publication increases my confidence of the study findings.</li><li>Q Sure. And I hear that. Are you using the fact</li></ul>	4 5	Q You cite the Keskin study on Page 14. I will mark that as Exhibit 16.  (EXHIBIT NUMBER 16 WAS MARKED FOR IDENTIFICATION.)
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	Page 202		Page 204
1	to look at it.	1	rats, what does talc do? That is a very brief
2	Q That is a fairly significant statement in the	2	summary of it.
3	article, correct?	3	And, you know, what they conclude is that it
4	A Right now the way I'm reading it, that is in	4	has unfavorable effects. There is no real talk of
5	reference to BRCA1 positive women. So I need to	5	humans about it at all, other than trying to
6	take a deeper look into that.	6	extend it to this other study of BRCA1 positive
7	Seems to me in this they are comparing, you	7	women.
8	know, the work they presented here that was in a	8	So I don't see where the connection really is
9	rat model to something that was seen in humans, in	9	there.
10	women who underwent a prophylactic oophorectomy.	10	Q With respect to the Mandarino study, I will mark
11	And so they are trying to say what they say	11	that as Exhibit 17.
12	in rats did not support the findings in these	12	(EXHIBIT NUMBER 17 WAS MARKED FOR
13	women. And, therefore, the study does not	13	IDENTIFICATION.)
14	demonstrate this association.	14	Q Did you have any concerns with that study?
15	But, again, we are comparing rats to humans.	15	MS. PARFITT: Objection to the question.
16	As I mentioned earlier, you know, not knowing the	16	Somewhat broad.
17	details about rat physiology, I would not	17	Q Did you identify any flaws in that study?
18	necessarily expect the findings in rats to apply	18	A Let me take a look.
19	to the findings in humans.	19	MS. PARFITT: Objection to the question.
20	So if I'm interpreting this paragraph	20	You can answer.
21	correctly, it does not seem like a very strong	21	A Sure. No, I don't have any particular concerns
22	statement because, again, it's apples to oranges	22	other than the fact that, again, this is a murine
23	versus apples to apples.	23	ovarian cell model versus in a human. It's just a
24	Q You do cite Keskin in your report, correct?	24	different type of study.
25	A Yes.	25	Q Was the gene expression profiling unique to talc?
	Page 203		Page 205
1	Q You cite it for the proposition, right, that the	1	A I see the results of the gene expression. I don't
2	preliminary results showed that talc given	2	really see what the results are. Talc and
3	inter-vaginally daily for three months had	3	estrogen. I think that is maybe not.
4	unfavorable effects on the female genital system.	4	Q Do you have the expertise to evaluate this study?
5	That is what you put into your report,	5	A I do. I have a fair amount of work looking at
6	correct?	6	gene expression data, mutational profiling and
7	A Yes.	7	those sorts of thing.
8	Q You don't put the corollary that the authors	8	Q Were the dosages in that study appropriate to make
9	actually concluded that the study did not	9	any comment on the hypotheses offered?
10	demonstrate an association between talc	10	A I'm not an expert in toxicology. I could not say
11	application and peritoneal/ovarian cancer.	11	per dose, no.
12	And my question is why would you not have	12	Q I will show you the Fletcher study.
13	given a balanced discussion of this article in	13	A Okay.
14	your report?	14	(EXHIBIT NUMBER 18 WAS MARKED FOR
15	MS. PARFITT: Objection.	15	IDENTIFICATION.)
16	A I feel actually like I do. I just say preliminary	16	Q This is Exhibit 18.
17	results and then they had unfavorable effects.	17	A Yes.
18	I guess I should have said on the rat genital	18	Q This is another one of the studies that have been
19	system similar to that of a foreign body reaction	19	co-authored by a plaintiffs' expert, is that
20	or infection.	20	correct?
21	And to me this jump into, you know, the	21	A Yes.
22	effects in BRCA1 positive women, that discussion	22	Q Did you examine the abstracts for this study
23	is maybe an extension of the findings. But the	23	before it was published?
1	a street. I think have athere a second at the second	24	A No.
24 25	actual, I think, hypothesis or what they were really trying to study here was introduced into	24	<ul><li>A No.</li><li>Q Do you know if the cell lines they used are good</li></ul>

	Page 206	Page 20
1	models for ovarian cancer?	1 not tell you. I have no opinion on that.
2	MS. PARFITT: Objection.	2 Q As a scientist who works in the field of female
3	Q Is that within your expertise?	3 cancers, that is not something that you are aware
4	A No. I would not characterize cell line as good,	4 of, correct?
5	bad, or otherwise.	5 You have not heard before that CA-125 has a
6	Q Do you know if the SNPs that Dr. Saed tested have	6 role in ovarian cancer causation or initiation,
7	been correlated with ovarian cancer?	7 correct?
8	A SNP, single-nucleotide polymorphisms. Let me see	8 MS. PARFITT: Objection. Form.
9	what they did in this study. I'm not sure how	9 A Initially CA-125 was being used as a biomarket
10	they selected those particular genes or SNPs.	detecting ovarian cancer. The hope was that it
11	Certainly, I mean, MPO has been associated	would be a marker of early detection. That didn
12	with several different cancer types.	12 pan out.
13	Q I am sorry. Do you know if they are associated	So you could say as an extension from that,
14	with ovarian cancer?	that it could be a marker of early carcinogenesis.
15	A Specifically, no. I didn't do a review about the	15 That would imply that it's in the pathway of
16	genetics of ovarian cancer.	16 carcinogenesis.
17	Q Do you know if the dosages that Dr. Saed used in	17 Q As a scientist sitting here today, do you have an
18	this study are comparable in any way to the dose	opinion that CA-125 has a role in cancer, ovarian
19	that would be imparted upon a woman who uses	19 cancer causation or initiation?
20	perineal talc?	20 MS. PARFITT: Objection. Asked and
21	MS. PARFITT: Objection. Asked and	21 answered.
22	answered.	22 A No. I do not have an opinion as to whether it has
23	A No. I don't know what the actual dose used here	23 a role in causation or initiation based on the
24	was in terms of experientially what it would be	data that I have reviewed.
25	compared to what a woman uses.	MR. JAMES: Let's take a quick break.
	Page 207	Page 20
1		1 age 20
1	· · · · · · · · · · · · · · · · · · ·	1 (OFF RECORD AT 2:41 P.M.)
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q Do you believe that CA-125 has a role in ovarian cancer initiation?	
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2	Q Do you believe that CA-125 has a role in ovarian cancer initiation?	1 (OFF RECORD AT 2:41 P.M.) 2 (AT THIS TIME A SHORT RECESS WAS HELD OFF
2 3	<ul><li>Q Do you believe that CA-125 has a role in ovarian cancer initiation?</li><li>A At this point in time the only evidence I've seen</li></ul>	1 (OFF RECORD AT 2:41 P.M.) 2 (AT THIS TIME A SHORT RECESS WAS HELD OFF 3 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS
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	P 210		Pr 212
1	Page 210 "The putative mechanism is the inflammatory	1	Page 212 plausible? Whatever word you want to use.
2	response caused by the talcum powder, resulting in	l .	A Sure.
3	chronic inflammation and oxidative stress, which	3	Q How do you feel about the evidence to date?
4	may initiate the carcinogenic process."	4	A I feel like
5	Do you see that?	5	MS. PARFITT: Objection. Form.
6	A Yes.	6	A I feel like there is that the biologic
7	Q By the usage of the word "putative" there, in your		plausibility that talcum powder exposure leads to
8	mind what level of scientific evidence exists for	8	chronic, among other things, chronic inflammation
9	that mechanism?	9	and a host of different reactions, inflammatory
10	MS. PARFITT: Objection. Form.	10	markers, kind of a cascade of effects that
11	You may answer.	11	ultimately leads to an environment where the
12	A Sure. So I would note that that is from the	12	person is more susceptible to the development of
13	executive summary so I don't have citations or	13	ovarian cancer.
14	anything else built around the executive summary.	14	So it's a biologically plausible mechanism.
15	So I would like us to go back to the section	15	It was, you know, the one that I found probably
16	where I talk about the different lines of evidence	16	the most evidence for.
17	that suggest that this is an inflammatory, kind of	17	Is it proven? That I don't know. That was
18	a chronic inflammatory response as the biologic	18	not the question that I was being asked. My
19	mechanism I focused on in my work here, that was	l .	question was, is there is causal association
20	to me the best evidence and the best explanation	20	between talc use and ovarian cancer. Biological
21	for multiple lines of data.	21	plausibility just one little spoke in the rest of
22	Q Do you consider chronic inflammation to be a	22	that wheel.
23	hypothesis, to be a theory, to be proven?	23	Q Okay. Are there any other mechanisms, biological
24	How do you characterize that?	24	mechanisms that you consider relevant to your
25	A I think chronic inflammation with respect to	25	analysis of biologic plausibility other than
-			
	Page 211		Page 213
1	Page 211 cancer is the hallmark of cancer.	1	Page 213 chronic inflammation?
1 2		1 2	chronic inflammation?
	cancer is the hallmark of cancer.		chronic inflammation?
2	cancer is the hallmark of cancer. $Q  \text{Let me be clear. With respect to the talc ovarian} \\$	2	chronic inflammation?  A Chronic inflammation was the one that I focused on
2 3	cancer is the hallmark of cancer.  Q Let me be clear. With respect to the talc ovarian cancer or claim, do you believe chronic	2 3	chronic inflammation?  A Chronic inflammation was the one that I focused on primarily.
2 3 4	cancer is the hallmark of cancer.  Q Let me be clear. With respect to the talc ovarian cancer or claim, do you believe chronic inflammation is the mechanism for talc to	2 3 4	chronic inflammation?  A Chronic inflammation was the one that I focused on primarily.  Q I appreciate that. I'm not trying to be too
2 3 4 5	cancer is the hallmark of cancer.  Q Let me be clear. With respect to the talc ovarian cancer or claim, do you believe chronic inflammation is the mechanism for talc to allegedly cause ovarian cancer?	2 3 4 5	chronic inflammation?  A Chronic inflammation was the one that I focused on primarily.  Q I appreciate that. I'm not trying to be too persistent here.
2 3 4 5 6	cancer is the hallmark of cancer.  Q Let me be clear. With respect to the talc ovarian cancer or claim, do you believe chronic inflammation is the mechanism for talc to allegedly cause ovarian cancer?  In your mind is that hypotheses still, is it	2 3 4 5 6	chronic inflammation?  A Chronic inflammation was the one that I focused on primarily.  Q I appreciate that. I'm not trying to be too persistent here.  A Okay.
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Page 214  1 as a whole.  2 Q Did you cite to any study, or are you aware of any 3 study showing inflamed ovarian tissue following 4 perineal talc use? 5 A How would you define inflamed ovarian tissue? 6 Q Okay. Let me try to rephrase. 7 A Yes. 8 Q Are you aware of any study that shows an  Page 214  1 that you are opining on, would it be visible? 2 MS. PARFITT: Objection. Form. 3 A I think it would be visible to, like, a pathologe examination of the tissue. Especially if you basically taking slides and cuts of tissue you could identify things that are markers of inflammation like macrophages, infiltrating lymphocytes.	- 1
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7 A Yes. 7 inflammation like macrophages, infiltrating	
9 inflammatory process in gynecologic tissue 9 That to me is evidence of chronic	
10 following perineal talc use? 10 inflammation. And localized, as well, potent	allv
11 A Let's look at what I have written. Actually I  11 to a certain tissue versus, like, chronic whole	
think there is a very good discussion of this as 12 body inflammation.	
well in Health Canada. Maybe going to Health  13 Q What study are you referring to?	
14 Canada is what we should do first. 14 A Yeah. We can look at these. Some of these	were
15 Q I appreciate that. But I'm asking you about a 15 in the Keskin. That was more looking at rats	
16 scientific study.  16 noticed that there was this introduction into the scientific study.	
17 Do you consider Health Canada to be a 17 foreign body. There are other cell lines. The	
18 scientific study? 18 are cancer cell lines that increase production	
19 A They were a large systematic review comprised of a 19 reactive oxygen species, which we know the	
bunch of different scientific studies even much 20 facilitate kind of, again, this cascade effect o	
21 larger in scope of what I have done here. 21 a lot of different processes that are associated	
22 If we want to go to my section on 22 with cancer initiation and progression. Thin	
23 inflammation, we can do that. We can also look at 23 like cellular proliferation, differentiation of	
24 the Health Canada one. 24 cells, cell signaling, and so forth.	
25 Q Let me try to get back on track here. I'm going 25 Those are, you know, in response these are	e
Page 215 Pa	e 217
1 to have to ask the questions. If you don't 1 cell line studies. There is other work that	
2 understand the question, just tell me. 2 suggests that talc actually attacks these	
3 A Okay. 3 macrophages because they are like a foreign body	
4 Q But are you aware of any study that demonstrates 4 Q So I appreciate that. I appreciate that is what	
5 inflammation granulomatous reaction through the 5 you noted in the report.	
6 female reproductive tract following perineal talc 6 What I didn't see in the report and what I'm	
7 use? 7 asking you if you know exists, do you know if	
8 A Again, I'm going to look at what I wrote in my 8 there is any study out there that reports	
9 report so that what I tell you is accurate. I 9 inflammation or granulomatous reaction in the	
want to be sure I don't conflate different studies   10 reproductive tract or gynecologic tissue of a	
11 in my mind. 11 woman who used talc and got ovarian cancer?	
12 Q What page are you on? 12 MS. PARFITT: Objection to the form.	
13 A I'm around Page 14. The bottom of Page 14. 13 A Yeah. I don't know of a systematic study that ha	
14 Q Let me ask you a different question. I think 14 examined that question in that context. There are	
maybe my question is not clear. 15 certainly studies that have shown that there is	
16 Is the type of inflammation that you are 16 evidence of talc in the ovarian tissue.	
opining on for plausibility, is the type of 17 And we know that in the cell line studies	
18 inflammation you are opining on, would it be 18 that the, you know, exposure to talc increases all	
19 visible? 19 of these different reactive oxygen species that	
MS. PARFITT: I have to object to that. 20 then go on and promote carcinogenesis.	
21 I'm not sure I understand the question. 21 Q On Page 38 of your report when you are discussi	ıg
22 Objection. 22 plausibility you conclude with a statement in the	
23 A Visible to the human eye? 23 last paragraph there I will wait for you to get	
24 Q To the human eye? To a gynecologic pathologist?24 there.	
Would this chronic inflammation mechanism 25 You conclude with a sentence, "It is	

D 210		P. 220
Page 218  1 well-accepted that inflammation contributes to the	1	Page 220 contributes to the initiation, development, and
2 initiation, development, and progression of	2	progression of cancer, including ovarian cancer."
3 cancer, including ovarian cancer."	3	A Yes.
4 Do you see where I read that?	4	Q One of them is that it contributes to the
5 A Yes, I do.	5	initiation of ovarian cancer.
6 Q Is it your testimony, yes or no, is your testimony	6	"Is well-accepted that inflammation
7 that it is well-accepted that inflammation	7	contributes to the initiation of ovarian cancer"
8 contributes to the initiation of ovarian cancer?	8	is that just a plausibility opinion, or are you
9 A Yes. And I think that the paper we talked about	9	saying that that is well-accepted?
10 earlier that is not cited here, correct, it was	10	A I'm saying that that is a plausibility opinion.
the Johnson paper that I said was a replication	11	It is plausible. It is underneath the biologic
of, in African-American, of the Catherine Brieger	12	plausibility. It is the last sentence in that
paper, the one I mentioned first, almost first	13	section.
14 thing this morning.	14	And additionally, speaking more broadly, you
15 Q Brieger?	15	know, it's a seminal paper in cancer research. I
16 A Brieger, that is it. That was one of the indices	16	believe it was published in 2000. Inflammation is
17 that they built, was an inflammation index. I do	17	one of the hallmarks of cancer. That is cancers
feel that the biologic plausibility suggests more	18	broadly.
likely than not that this is a potential mechanism	19	But I would not find, I have not found or
20 for ovarian cancer initiation.	20	done an extensive literature search or systematic
21 Q Okay.	21	review of every type of cancer and inflammation.
22 A It's the biological mechanism. I'm not	22	Q Is pelvic inflammatory disease reliably associated
23 necessarily stating it's causation.	23	with ovarian cancer?
24 Q In your opinion, is it well-accepted that	24	A I did not study pelvic inflammatory disease
25 inflammation causes ovarian cancer?	25	specifically with respect to ovarian cancer. I
Page 219		Page 221
1 A No. I did not say that it causes it. I said that	1	have seen some studies that indicate it does
2 looking at the association between talc and	2	increase risk. PID is, I think, sometimes an
3 ovarian cancer, one of the potential biologic	3	umbrella term. It has a lot of other benign
4 mechanisms, and the mechanism that is focused on	4	1 1 11.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		gynecologic conditions associated with it. They
5 here, is that it leads to chronic inflammation.	5	are not necessarily all singular in nature.
6 And it's a, in my mind, a very biologically	5 6	are not necessarily all singular in nature.  We did publish a study on this from AACEs. I
6 And it's a, in my mind, a very biologically 7 plausible mechanism from you know, it's	5 6 7	are not necessarily all singular in nature.  We did publish a study on this from AACEs. I would have to go back to the paper and look at it
6 And it's a, in my mind, a very biologically 7 plausible mechanism from you know, it's 8 multiple lines of evidence.	5 6 7 8	are not necessarily all singular in nature.  We did publish a study on this from AACEs. I would have to go back to the paper and look at it to see what the actual results were.
6 And it's a, in my mind, a very biologically 7 plausible mechanism from you know, it's 8 multiple lines of evidence. 9 We see there is evidence for retrograde	5 6 7 8 9	are not necessarily all singular in nature.  We did publish a study on this from AACEs. I would have to go back to the paper and look at it to see what the actual results were.  Q Do you have an opinion sitting here today on
6 And it's a, in my mind, a very biologically 7 plausible mechanism from you know, it's 8 multiple lines of evidence. 9 We see there is evidence for retrograde 10 menstruation. We know that from an epidemiologic	5 6 7 8 9 10	are not necessarily all singular in nature.  We did publish a study on this from AACEs. I would have to go back to the paper and look at it to see what the actual results were.  Q Do you have an opinion sitting here today on whether PID is reliably associated with ovarian
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8 Q Are you aware of any gynecologic pathologist that 8 Am I understanding that correctly? 9 believes high grade serous cancer is correlated 9 A Yes. 10 with or associated with inflammation? 10 Q Are those your independent opinions, or are you	6	hallmark of cancer, is that it evades the immune	6	is it	fair to say you are providing a summary
9 believes high grade serous cancer is correlated 10 with or associated with inflammation? 9 A Yes. 10 Q Are those your independent opinions, or are you	7	system.	7	of the a	article in those two sentences?
with or associated with inflammation? 10 Q Are those your independent opinions, or are you	8	Q Are you aware of any gynecologic pathologist that	t 8	Am	I understanding that correctly?
	9	believes high grade serous cancer is correlated	9	Yes.	
MS. PARFITT: Objection. Form. 11 reporting on Savant?	10	with or associated with inflammation?	10	Are th	ose your independent opinions, or are you
1 1	11	MS. PARFITT: Objection. Form.	11	reportir	ng on Savant?
12 A I have never had this discussion with the 12 A After reading Savant this is how I would summari	12	A I have never had this discussion with the	12	After	reading Savant this is how I would summarize
gynecologic pathologists that I work with. So,   13 the article by this team. It is probably a very	13	gynecologic pathologists that I work with. So,	13	the artic	cle by this team. It is probably a very
no, I am not aware. 14 simplistic picture of what they actually included	14	no, I am not aware.	14	simplis	tic picture of what they actually included
15 Q Are you aware of any study that demonstrates an 15 in this review.	15	Q Are you aware of any study that demonstrates an	15		
association between the histologic presence of 16 Q Did you look at the citing references in the	16	association between the histologic presence of	16	Did yo	ou look at the citing references in the
17 inflammation and tubal injury? 17 Savant article? Do you recall?	17	inflammation and tubal injury?	17	Savant	article? Do you recall?
MS. PARFITT: Could you repeat the 18 A At one point in time, sure.	18	MS. PARFITT: Could you repeat the	18		
19 question? 19 Q Did you look to see if the citing references	19	question?	19	Did yo	ou look to see if the citing references
20 Q Are you aware of any study that demonstrates an 20 supported the statement in the article?	20	Q Are you aware of any study that demonstrates an	20	support	ted the statement in the article?
21 association between tubal injury or chronic 21 A I believe there were several hundred citing	21	association between tubal injury or chronic	21	I belie	eve there were several hundred citing
22 inflammation in the tubes with ovarian cancer? 22 references. Yeah. There is over 231, so I did	22	inflammation in the tubes with ovarian cancer?	22	referen	ces. Yeah. There is over 231, so I did
MS. PARFITT: Objection. Form. 23 not check every reference and make sure that they	23	MS. PARFITT: Objection. Form.	23	not che	ck every reference and make sure that they
24 A Yeah. I think I need that clarified. I mean, any 24 matched, no.		A Yeah. I think I need that clarified. I mean, any			
form of injury causes some level of inflammation 25 Q With respect to the specific conclusion that I	25	form of injury causes some level of inflammation	25	With 1	respect to the specific conclusion that I

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	Page 230		Page 232
1 Q	Then if you look on the next page you can see the	1	MS. PARFITT: Objection to form.
	next paragraph says, In Canada."	2	A I think they are making a statement that what they
3	Do you see that?	3	have considered in this review, or in this
4 A	Yes.	4	statement, is talc that is free of asbestos.
5 Q	So at the conclusion of those paragraphs the	5	So the findings in this report are about
l	Health Canada assessment says, "The cosmetic-grade	6	talc, not specifically about talc containing
7 ta	alc used in the health effect studies cited in	7	asbestos.
8 tl	his assessment were considered to be free of	8	Q You acknowledge in your report that Health Canada
9 a	asbestos."	9	has considered the inhalation of talc powders,
10	Do you see that?	10	correct?
11 A	Yes.	11	A Correct. That was not the focus of my review.
12 Q	Is it proper to say that Health Canada did not	12	Q Sure.
13 c	consider the issue of asbestos or assumed that the	13	On Page 16 you do note that Health Canada
14 p	products were asbestos free?	14	considered inhalation, correct?
15 A	That is what they state here, yes. That is what I	15	A Yes. They included oral, dermal, inhalation and
16 s	state on Page 15 as well.	16	perineal.
17	It's not a direct quote, but assumed	17	Q You recognize that Health Canada does not find
18 c	cosmetic-grade talc to be asbestos free.	18	that inhalation of talcum powders confers a cancer
19 Q	It may be just a difference in terminology, but	19	risk, correct?
20 w	when I looked at your use of the word "assumed" it	20	MS. PARFITT: Objection to form.
21 c	conveyed to me that Health Canada had not	21	A Again, that was not the reason that I was reading
22 a	addressed the issue.	22	and focusing on Health Canada.
23 A	Okay.	23	But I do not identify that in my report,
24	MS. PARFITT: So what is the question?	24	correct.
25	MR. JAMES: I'm asking it.	25	Q You understand that Health Canada has concluded
	Page 231		Page 233
1	MS. PARFITT: Okay.	1	that the inhalation of talcum powders does not
	If you look at this paragraph, Health Canada walks	2	confer a cancer risk, correct?
	hrough specifications for talcum powders,	3	MS. PARFITT: Objection to form.
	correct?	4	A Cancer risk, meaning lung cancer or meaning
5	It goes through historical information,	5	ovarian cancer?
6 c	correct?		Q Do you understand that Health Canada has concluded
'	Correct.		that the inhalation of talcum powders does not
	And then it notes in the last paragraph that, "In	8	confer a risk of ovarian cancer?
	Canada, the Prohibition of Asbestos and Products	9	A Yes, I believe that.
l	Containing Asbestos Regulations (updated 2018)	10	MS. PARFITT: Objection to form.
l	under CEPA prohibit asbestos above trace levels in	11	A I believe the conclusions from Health Canada was
_	products available to consumers, including	12	that it was just the association between perineal
	cosmetics."	13	talc and ovarian cancer that was the causal
	Uh-huh.	14	association.
I	They go on to say, "The cosmetic-grade talc used	15	
	n the health effect studies cited in this	16	described two different ways in your report. I
	assessment were considered to be free of	17	think one time you quote their language where they
	asbestos."	18	say indicative of causal.
19	Do you see that?	19	Do you remember that?
	I do.	20	A Sure.
	So Health Canada here is making a qualitative	21	Q Another time in your report you say causal.
I	statement on whether or not cosmetic-grade talc is	22	Do you recognize a distinction between the
	ree of asbestos, is that correct?	23	phrase indicative of causal and causal?
24	MS. PARFITT: Objection.	24	A Perhaps indicative of causation or causal is not as strongly stated as causal.
25 Q	They are not simply assuming.	25	

	Page 234		Page 236
1	ž	1	really I think that they only reviewed up until
2	<u>*</u> ·	2	about 2006.
3	, , , , , , , , , , , , , , , , , , ,	3	So they are missing right now about fifteen
4	lot of the Bradford Hill considerations. They	4	years' worth of data, you know, from 2006 to, say,
5	1	5	2023, last year. So it's more of a limited review
6	, ,	6	because it's not considering all of the data that
7	1	7	we have accumulated over the last decade and a
8	,	8	half.
9	indicative of a causal association.	9	Q Did IARC get it right in 2006 and publish in 2010?
10	11 1	10	Was the evidence at that time supportive of 2B?
11		11	MS. PARFITT: Objection.
12	correct?	12	A I didn't ask myself that question, per se. I
13		13	mean, I think what was presented based off of my
14	could not quote every single statement in this	14	reading was that they felt like that was, I
15	report.	15	believe, a move up from their earlier report.
16	To me indicative of causal association is a	16	They had moved from I'm not quoting it
17	causal association. It indicates a causal	17	probably correctly you know, from yeah.
18	association.	18	They moved it from Group 3 to a Group 2B.
19	Q Okay. With respect to inhalation, do you have the	e 19	So they saw enough evidence, again, this is a
20	1	20	comprehensive report, multiple lines of evidence,
21	•	21	that suggested that it should be a higher concern
22	,	22	for human health.
23		23	Q Do you have an opinion on whether when IARC
24		24	conducted its review that 2B was the correct
25	Page 16 at the very bottom that you believe that	25	classification?
			ciassification.
	Page 235		Page 237
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As we reviewed, that has been classified as a

24

25

talc.

25

24 A My opinion goes further than IARC because IARC is

limited, at least in this Monograph, to data

	Page 238		Page 240
1	Group 1 human carcinogen.	1	perineal talc used in humans, and less than
2	Q Earlier today you told me that you were opining on	2	sufficient in animals, correct?
3	the body of literature that assesses the	3	A Yes. I believe how it's stated, or how I have it
4	relationship between talcum powders and ovarian	4	stated here, is "evidence supporting risk to
5	cancer, correct?	5	humans is limited, and evidence from animal models
6	A Yes.	6	is lacking; however, it is a higher level of
7	Q That body of literature was assessed by the 2010	7	concern than Group 3," which says that it is "not
8	IARC Monograph, correct?	8	classifiable as to their carcinogenicity to
9	A Yes.	9	humans."
10	Q The IARC 2012 Monograph did not assess the same	10	Q Okay. You also note Group 4 in your report,
11	body of literature that you were assessing in your	11	correct?
12	litigation report, correct?	12	A Yes.
13	MS. PARFITT: Objection. Form.	13	Q Do you know if IARC still uses a Group 4?
14	A The same body of literature. I believe I included	14	A I do not. I have not committed that to memory.
15	some of the literature.	15	Q If I tell you that Group 4 no longer exists, does
16	Q The IARC 2012 Monograph that you just referred to	16	that ring a bell?
17	did not go through Gertig and Gates and Houghton	17	Do you have any familiarity with that?
18	or Cramer or Merritt or Ness or Mills or Cook or	18	MS. PARFITT: Objection.
19	Chang?	19	A No, I do not.
20	That is the body of literature on talc	20	Q With regard to IARC's classification of limited
21	ovarian cancer, correct?	21	evidence, you understand that they concluded then
22	The 2020 Monograph did not address that body	22	that chance bias and confounding could not be
23	of literature, correct?	23	ruled out for the association between talc and
24	MS. PARFITT: Objection to form.	24	ovarian cancer, correct?
25	A I can go back and review exactly what 2012	25	A Correct.
	Page 239		Page 241
1	included in their epidemiologic studies if that is	1	Q Let's talk about the section of your report on
2	how we need to spend our time.	2	meta-analysis. I show that is Page 17.
3	Off the top of my head I can't say what	3	A Yes.
4	studies were or were not included in there.	4	() Just to be fundamentally also it's titled
5			Q Just to be fundamentally clear, it's titled
	Q Okay. The 2010 Monograph is the monograph that	5	Meta-analysis. You conclude with a Table 3,
6	makes a classification on the perineal use of	5 6	Meta-analysis. You conclude with a Table 3, correct?
7	makes a classification on the perineal use of talcum powders, correct?	5 6 7	Meta-analysis. You conclude with a Table 3, correct?  A Yes.
7 8	makes a classification on the perineal use of talcum powders, correct?  A Yes.	5 6 7 8	Meta-analysis. You conclude with a Table 3, correct?  A Yes.  Q You have input into that table both O'Brien 2020
7 8 9	makes a classification on the perineal use of talcum powders, correct?  A Yes.  Q The perineal use of talcum powders is not the	5 6 7 8 9	Meta-analysis. You conclude with a Table 3, correct?  A Yes.  Q You have input into that table both O'Brien 2020 and Terry 2013, correct?
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	Page 242		Page 244
1	Q Putting aside whether or not you agree with	1	Page 244 Q Do you believe that the O'Brien paper, the overall
2	O'Brien, the conclusion in the abstract is that,	2	finding of the O'Brien paper, supports your
3	"In this analysis of pooled data from women in	3	causation opinion, or just the findings on patent
4	four U.S. cohorts, there was not a statistically	4	reproductive tracts that supports your opinion?
5	significant association between use of powder in	5	A It is not my overall causation. My overall
6	the genital area and incident ovarian cancer,"	6	causation is not supported based on one study.
7	correct?	7	Overall causation is based on multiple lines.
8	A That is what their conclusion states, yes.	8	Biologic plausibility. Consistency. Strength of
9	Q They also comment in this paper that there was no	9	the association.
10	dose response, correct?	10	Overall, yes, I think the O'Brien paper and
11	MS. PARFITT: Objection.	11	these cohort studies, despite some limitations
12	A Yes. I believe that that is part of their	12	that are inherent to cohort studies, particularly
13	conclusions.	13	of a disease of ovarian cancer which is a later
14	Q Okay. Again, setting aside whether you agree or	14	onset disease, still support the overall
15	disagree, on Page 56 they offer a discussion	15	association findings that there is an association
16	section, the first paragraph.	16	between risk of or I'm sorry between the use
17	A Yes. I see where you are at.	17	of perineal talcum powder, genital talcum powder,
18	Q Okay. They say, "There were no clear	18	and ovarian cancer.
19	dose-response trends for duration and frequency of	19	Q Do you have the opinion that all of the cohort
20	powder use" Correct?	20	studies demonstrate an association, or only three
21	A Yes, that is what they say.	21	of the studies demonstrate an association?
22	Q On Page 50, the page after the abstract, in the	22	*
23	second paragraph they are talking about case	23	particular, the Sister Study, has serious issues
24	control studies.	24	at least in the initial, in particular in the
25	Then they say, "However, these findings may	25	initial analysis with how they obtained the
1			
	Page 243		Page 245
1	be affected by recall bias and the recent surge in	1	exposure information. There was a large degree of
2	be affected by recall bias and the recent surge in talc-related lawsuits and media coverage."	2	exposure information. There was a large degree of misclassification, which they recognized, and it
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	be affected by recall bias and the recent surge in talc-related lawsuits and media coverage."  Do you see that?  A Yes, I do.  Q In the last sentence the O'Brien authors say, "Thus, it is crucial to evaluate the talc-ovarian cancer association using prospective data."  Did I read that last sentence correctly?  A You read that last sentence correctly.  Q So at least the O'Brien authors are affirming that it is crucial to evaluate this association with prospective cohort data, correct?  A It appears to be their belief, but they are the ones writing the paper.  Q Yes. I understand. Let me just say, you disagree with that last sentence, is that correct, that I just read?  A I think cohort data still has a place and I not to jump ahead, I think it does support an association.  So I think it is crucial to build evidence where we can. Whether that evidence supports or not the primary hypotheses that talc use is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	exposure information. There was a large degree of misclassification, which they recognized, and it was based on the timeframe that they were asking about the talcum powder usage.  It was drastically lower than any other published case control or cohort study that I saw. So I feel like for the purposes even of this review or this meta-analysis, that that study should have been excluded on that basis.  Q Okay. In your report I think I saw, I could be wrong, I thought I saw a couple conflicting statements where at one point you said the four cohort studies support an association, and then at one point you said three.  Are you taking a position that the Sister Study supports an association or does not support an association?  A The Sister Study on its own does not support an association based on the estimate provided in this meta-analysis. I'm not talking about updated data when they went back later and asked about the age range of usage of being ten to thirteen, which almost doubled their exposures.

Page 246 Page 248 1 not just stating different. Perhaps it is here. 1 positive, cross one, correct? 2 I think the other three studies individually 2 A Correct. But that can be for various reasons. 3 all provide some evidence that supports a positive 3 And one of the things that you can use when you 4 4 look at the confidence intervals, that gives you association. 5 Q The terminology "positive association" to you 5 some idea about just the sample size. means that it's more than one and it does not 6 Whereas a P value does not give you any 7 matter if it crosses one, is that correct? 7 additional information. 8 A At this point that is how I would define a 8 Q So for purposes of your opinion here, whether or positive association. not a study presents an association that crosses 10 Q So for you, statistical significance in these 10 one, or whether or not a study has a statistically 11 studies does not prevent you from saying that they 11 significant P value, regardless of all of that, as 12 reflect a positive association, is that? 12 long as the number is more than one you will call 13 MS. PARFITT: Object to the form. 13 it a positive association? 14 A Correct. I would say that there is a positive 14 A I would refer to that as a positive association, 15 association. I would not say that there is a 15 16 statistically significant association. 16 Q Is that something that you have held to 17 A positive association could still be 17 methodologically your entire career as an 18 important clinically. It could still be important 18 epidemiologist, or is this a new thing? 19 19 MS. PARFITT: Objection to form. on a population level. Statistical significance 20 is really talking about, you know, a statistical 20 A This has been kind of discussed and emerging in 21 21 the epidemiologic literature over time. A lot of 22 Q But it is a test that is meant methodologically to 22 that, I believe, has been driven by genetic 23 indicate when a certain result can be trusted. I 23 association studies, SNP studies. This was 24 24 know you may not agree with my terminology. actually what my dissertation work was in, was 25 But it's meant to indicate when a result can 25 looking at seven different SNPS in five different Page 247 Page 249 be trusted, versus when a result may be due to 1 genes. That was back in 1999, 2000-ish. 1 2 2 chance bias or confounding. That was when the field was really taking 3 That is the purpose of statistical 3 off. And what they noticed, and "they" meaning 4 4 significance, correct? kind of like the collective scientific community, 5 5 MS. PARFITT: Objection to form. is that these genetic effects could be, in terms 6 A I would say that the P value, again, is really 6 of the point estimate .05 might have been 7 7 just to test a hypothesis. It usually does not categorized as a very low estimate. 8 indicate bias or confounding. It's really more of 8 But then when you look over the whole 9 chance. population, you say, oh, forty percent of people 10 Q Yeah. 10 carry that particular variant that increases risk, 11 A However, it's an artificial number that we have 11 that might not be a statistically significant or 12 applied. A P value of less than .05 is considered 12 impressive, so to speak, odds ratio. But it is 13 13 to be statistically significant. very significant on a population level. 14 14 There is no scientific statistical biological And that line of thinking, again, this is 15 reason that we have selected that as a cut point. 15 when I was starting twenty years ago to come into 16 And for that reason, they are being used less in 16 the field, I think that line of thinking has 17 medical literature and scientific literature. A 17 really developed over time so that there is not 18 straight P value, it does not give you as much 18 this reliance on it's statistically significant 19 information as a confidence interval would. 19 so, therefore, it's important, versus it's not 20 20 Q You don't have to agree with my terminology, statistically significant so, therefore, there is 21 21 because I know you won't, but you are not just 22 putting aside the P value, you are putting aside 22 Q So with your definition of positive association, 23 23 the confidence interval, also. Right? is it your contention that the cohorts and the 24 I mean, these studies, these studies cross 24 case controls on talc and ovarian cancer all

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consistently demonstrate an association?

25

one, several of the ones that you are calling

25

1	Page 250 Or maybe with the exception of Sisters.	1	Page 252  Q So you are aware that a lot of the literature out
	MS. PARFITT: Objection. Form.	2	there published to date on this accepts or states
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	You can answer.	3	that the cohorts are not detecting an association
4	A And the Sister Study I would remove not because of	4	and some of the case controls are.
5	the point estimate that they found. It's really	5	That is published out there in the
6	about the major issue with misclassification of	6	literature. You have seen that characterization
7	the exposure.	7	of the cohort studies, correct?
8	So I want to be clear that that would be the	8	MS. PARFITT: Objection. Form.
9	reason that I would exclude Sisters. It would not	9	A I have seen that characterization. Yes, I have.
10	be because it did not go in the positive	10	Q It's in a lot of the meta-analysis that you cite.
11	direction.	11	It's in all of the cohort studies that you cite.
12	It would be because they noticed, you know, a	12	We just looked at O'Brien where they said
13	flaw that they actually kind of tested and proved	13	they didn't detect an association. All of these
14	was a flaw. But, yes, I think that there is	14	studies are using language to say, the cohorts,
15	consistency between the majority of the case	15	are not detecting an association.
16	control studies and the cohort studies. There is	16	You would disagree with all of those pieces
17	a positive association.	17	of literature that characterize the cohorts that
18	Again, we are talking about a substance, we	18	way, is that correct?
19	are talking about talc here that has, like, no	19	MS. PARFITT: Objection to form.
20	medicinal benefit to women that we know of. And	20	A I don't disagree that those data are out there, or
21	yet it might increase risk of this disease that is	21	those statements are out there.
22	highly rapidly fatal. It has a terribly poor	22	I would disagree that we have four cohort
23	prognosis and induces a lot of suffering.	23	studies that have identified measures of
24	Q All that is totally respected. The latter portion	24	association that are lower than the vast majority
25	of your comment there.	25	of case control studies.
	Page 251		Page 253
1	That is a different issue, isn't it? Whether	1	And that we as a field, you know, we have got
2	or not ovarian cancer is a terrible disease and	2	tens of thousands of cases that we have looked at
3	all of the things that you just mentioned,	3	in these case control studies. We have a fraction
4	methodologically as an epidemiologist, right, wher	1 4	of that in those cohort studies.
5	you are trying to consider whether there is an	5	As I mentioned at the beginning of today,
6	association, that, you know, that is a separate	6	cohort studies are not well designed to answer a
7	issue from thinking about the public health	7	question of a rare disease that takes years of
8	impact, isn't it?	8	initiation. And, you know, that may be leading to
9	MS. PARFITT: Objection to form.	9	some of the differences that you see between those
10	A Yeah. Thinking about whether or not there is an	10	point estimates.
11	association versus the ultimate health impact, to	11	Another concern of relying heavily on these
12	me at the end that, that is more in line with	12	cohort studies is the fact that at entry into the
13	trying to establish causality.	13	study, and I will use Women's Health Initiative as
14	But back to, you know, the area of, you know,	14	an example, you have to be a post-menopausal
15	does the meta odds ratio or relative risks or a	15	woman.
16	single study, is the association, is it nine	16	So any ovarian cancer that occurred
17	percent excess risk? Is it twelve percent? Is it	17	pre-menopausally, which is around seven or eight
18	twenty-five percent? Is it forty percent?	18	percent of all ovarian cancers, were by definition
19	You know, those numbers to me, again, in the	19	missed. And if you believe some of the other
20	totality of all of the analysis, you know, say	20	literature that suggests that the effects of talc
21	it's essentially all in the same direction. Those	21	are enhanced in a group of women who are either
22	odds ratios are all in the same direction whether	22	pre-menopausal in the face or in the
23	it's the nine percent, whether it is the thirteen	23	interactions with estrogen so either on hormone
24	percent, whether it's the twenty percent increase in risk.	24	replacement therapy or pre-menopausal woman who
25	in rick	25	still have some at least some estrogen function.

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1 You know, if those women were included in	1 (	Q At the very bottom you say, "The Women's Health
these cohort studies, conceivably the point	2	Initiative, WHI, did not detect an association
3 estimates would be much more in alignment with	3	with genital talc use and EOC."
4 what we see in the case control studies.	4	Do you see that language?
5 The cohort studies are not the best study		A I do.
6 designed to answer this question.		Q Do you agree that that statement is true today?
7 Q And the point estimate you have put in your report	1	A I believe with yes. I would say based on so
8 in several places is 1.25, correct?	8	this was based on 2016, but really probably more
9 A Yes.	9	like 2015 that, yes, based on all of the other
10 Q Is that the number that you land on as an expert	10	information I have from eight years later, I no
11 that you think the association from the totality	11	longer agreement with this statement.
of the evidence is a 1.25, correct?	12	Q So today you are changing, or you would change how
13 MS. PARFITT: Objection. Form.	13	you would write this sentence?
14 A Yeah. If I had to give a single number, I would	14	A Right. I would say did not detect a statistically
15 say, yes, about 1.25 based on the available	15	significant.
16 evidence.	16	Q Is that because of the result of O'Brien or
17 Q I'm just reading from your report.	17	because of these other lines of evidence that you
18 A Yes. That does not consider, you know, whether we	18	have considered?
19 have an open or closed tract. If it was in a	19	A It's actually both.
20 patent tract, it might be a little higher.	20	Q You said in 2016 in a published paper before you
21 Q Okay. With respect to your testimony that the	21	were a retained expert in the litigation that the
22 cohorts show a positive association	22	WHI did not detect an association with genital
23 A Yes.	23	talc use and EOC.
24 Q you have in prior literature previously	24	Those were your words as a co-author,
25 commented on the cohort studies, correct?	25	correct?
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1 MS. PARFITT: Objection. Form.		A Those were the findings, yes.
2 I'm not sure what cohort	2	Q You go on to say that, "Neither prospective study
3 A And I'm not sure prior literature.	3	found evidence of a dose-response relationship."
4 Q Okay. Well, today your testimony in this room is	4	Do you see that language?
5 that the cohorts show a positive association,		A Yes.
6 correct? That is your testimony. You are talking		Q Will you agree that that is still true today?
7 about the WHI and the NHS, correct?	1	A Yes, I would.
8 A That is of my intensive read of everything that is	8	Q So you do agree that the prospective studies do
9 available to date including, you know, some of the	9	not find evidence of a dose-response relationship,
10 comments to the editor. Yes.	10	correct?
11 Q Which we will get to hopefully. So I will mark as		A At the time of this publication I would say that
12 Exhibit Number 21 your Schildkraut study.	12	is correct.
13 (EXHIBIT NUMBER 21 WAS MARKED FOR		Q Do you agree
14 IDENTIFICATION.)	1	A But that was really only two studies.
15 A Yes.		Q Okay. Do you agree to this day that WHI and NHS,
16 Q This is the study in which you were a co-author	16	which were published before this
that looks at body power use and ovarian cancer?		A Yes.
18 A Yes.		Q that those studies do not find evidence of a
19 Q Again, this is a paper you co-authored with	19	dose-response relationship?
20 Moorman, Schildkraut and many others, correct?		A I'm going to actually look at my meta-analysis.
21 A Yes.	21	I'm sorry. My cohort analysis table.
22 Q Look at the bottom of the first page for me.	22	Because what occurred between the time that
23 A Okay.	23	these initial studies were published and the
24 Q There you are summarizing prior studies.	24	findings that were summarized in O'Brien is they
25 A Yes.	25	add cases. As the cohort ages and develops more

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1 cases are added.	1 introduction to the article.
2 So, again, I am now looking at the Table 4.	2 Q To be honest, I don't know the precise chronology.
3 I'm really looking at WHI number of cases based on	3 Do you recall seeing this?
4 the 2014 which is 429 cases.	4 A I believe so.
5 Then if we can go back to the O'Brien	5 Q Okay.
6 analysis, Exhibit 20. Yeah. The Women's Health	6 A I thought I can tell by the dates on it. This
7 Initiative study here, it went from, you know,	7 is like the introductory commentary about the
8 what was originally published in 2014, so prior to	8 article.
9 the writing of the Schildkraut paper, they had 429	9 Q Okay.
10 cases. Now they have got 649 cases. So not quite	10 A Yes.
doubling. No. Not quite a doubling. But, you	11 Q I want to ask you about a specific passage. Turn
12 know, a large additional amount of data was	over to the second page.
included in the O'Brien papers.	On Page 30 there is a paragraph there that
14 Q Again, my question that we are on right now is	starts with, "Given this putative mechanism of
whether you still agree that neither NHS nor WHI	15 exposure"
found evidence of a dose response relationship.	Do you see that?
Do you agree with the statement that you made	17 A Yes. They are speaking about inflammation.
in 2016, do you agree with that today?	18 Q Okay. And they go on to talk about a
19 MS. PARFITT: Objection. Form. Asked and	19 classification issue. You can read that
20 answered.	20 paragraph. That is between patent and not patent.
21 A Yes.	21 Read that paragraph. Then I want to ask you
22 Q But you do not agree with the prior sentence that	22 a question.
23 you wrote in 2016.	23 A Got it. I'm through it.
You no longer agree that the WHI did not	24 Q So in that paragraph one of the issues that they
25 detect an association. You would amend that	25 are discussing is the classification of patent
Page 259	Page 261
1 today	1 versus non-patent, correct?
2 A Correct.	2 A Yes.
3 Q in the context of litigation, correct?	3 Q Do you agree that the stratification of women into
4 MS. PARFITT: Objection to the form.	4 patent and non-patent does not clearly group women
5 A Correct. I would amend that.	5 into exposed and non-exposed categories for the
6 MS. PARFITT: We have gone about an hour.	6 reasons that they stated?
7 Can we take a little break?	7 MS. PARFITT: Objection.
8 (OFF RECORD AT 4:03 P.M.)	8 A I would agree if you are just looking at kind of
9 (AT THIS TIME A SHORT RECESS WAS HELD OFF	9 gross measure of exposure. But it does not, there
10 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	is, like, a curtailing of exposure that could
11 WERE HAD:)	occur in women who have had, you know, a
12 (ON RECORD AT 4:19 P.M.)	hysterectomy or oophorectomy or tubal ligation.
13 BY MR. JAMES:	So it could be a curtailing of that exposure.
14 Q With respect to the O'Brien article, did you read	14 It gives you some additional information.
15 the accompanying letter written by Gossett?	15 Q Okay. But you are agreeing that there is some
16 A Let me see.	16 merit to what they are saying about the
17 Q I did not see Gossett listed, in full disclosure.	17 classification issue?
18 A If I did not	18 MS. PARFITT: Objection. Misstates
19 Q Let me mark it and hand it to you.	19 testimony.
20 A Okay.	20 A I'm saying this provides additional information.
21 (EXHIBIT NUMBER 22 WAS MARKED FOR	What is described here is what we would call it
22 IDENTIFICATION.)	22 is a potential effect modifier. When you divide
23 Q Does that letter look familiar to you?	one group into two different groups to see if the
24 A Yes, it does. I think this was published at the	association differs between those two groups.
25 same time, was it not? Kind of like an	Here they argue because it's not

	Page 262		Page 264
1	statistically different, the HR in the patent	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	group of 1.13 and the non-patent group of .99,	2	trying to bucketize these two groups of study
3	they are arguing that it's not a statistically	3	participants in the patent and non-patent does not
4	significant difference. So, therefore, it is not,	4	really classify them into exposed versus
5	in their mind, important.	5	non-exposed.
6	Q Okay. I guess you are talking about the	6	Did you see that point they were making as
7	heterogeneity test they ran between the two	7	well?
8	subgroups?	8	MS. PARFITT: Objection. You are still
9	A Yes.	9	talking Gossett, right?
10	Q In O'Brien, and Gossett re-emphasizes, there was	10	Q Sure. Yes. For the Gossett article, one of the
11	not a statistically significant difference between	11	points they are making is that the stratification
12	the two subgroups, correct?	12	does not clearly group the women into exposed and
13	A Not statistically significant, correct.	13	unexposed, correct?
14	Q The conclusions they draw from that finding are	14	That is what they are saying?
15	that because of that, you actually really can't	15	A Correct. Because women who had been using, for
16	say that there was a difference between the	16	example, during their adolescent years who had a
17	association between patent and non-patent?	17	tubal ligation in their thirties, they were only
18	They are hinging on statistical significance?	18	exposed it curtails the exposure. They are
19	MR. TISI: Who is they? Gossett or	19	potentially exposed up until that time.
20	O'Brien?	20	Q Do you think there was some merit to that point,
21	MS. PARFITT: Objection.	21	that the stratification does not actually properly
22	Q Gossett.	22	get the case study participants into exposed and
23	A Yes. That is what Gossett states.	23	unexposed?
24	Q O'Brien notes that as well. They note that they	24	Do you think there is some merit to that
25	ran the heterogeneity test, correct?	25	point?
	Page 263		Page 265
1	A Correct. But the heterogeneity test, again, is a	1	MS. PARFITT: Objection.
2	D -1 - Id-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
	P value. It's based on the simple kind of like a	2	A I think there is merit to that point. I think it
3	yes or no, versus looking at the hazard ratios.	3	A I think there is merit to that point. I think it adds some information about the length of
3	yes or no, versus looking at the hazard ratios. One does still, you know, suggest and, in		adds some information about the length of exposure.
	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or	3	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of
4 5 6	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is	3 4	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of
4 5 6 7	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26	3 4 5	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of
4 5 6	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26 confidence interval.	3 4 5 6 7	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of
4 5 6 7	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26 confidence interval.  Q Okay. We have talked about your position on	3 4 5 6 7	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of association that you ascribe, which is the 1.25?
4 5 6 7 8 9 10	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26 confidence interval.  Q Okay. We have talked about your position on statistical significance already today, correct?	3 4 5 6 7 8	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of association that you ascribe, which is the 1.25?  A I feel on their own they would be underpowered to detect that association.  As a group, despite the fact that they ask
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26 confidence interval.  Q Okay. We have talked about your position on statistical significance already today, correct?  A Correct.  Q Does that position apply in your mind to this issue as well, the statistical significance of heterogeneity?  MS. PARFITT: Between patent and non-patent?  A Between these two groups?  Q Yes.  A Yes. My opinion is that, you know, once you star stratifying data in any sort of way when you already have a limited number of, you know,	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 rt19 20 21	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of association that you ascribe, which is the 1.25?  A I feel on their own they would be underpowered to detect that association.  As a group, despite the fact that they ask questions somewhat differently, they have had to harmonize data that are perhaps not perfectly able to be harmonized because it's not the exact same question being asked for the exact same timeframe for all these studies.  So it's a less than perfect harmonization. I do think that it is potentially still underpowered.  Q And "it" you are referring even with O'Brien?  A Yes. Even summarized together.  Q Let's look at your report.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	yes or no, versus looking at the hazard ratios.  One does still, you know, suggest and, in fact, if you are going to look at one P value or argue statistical significance in one area, it is now statistically significant at 1.01 to 1.26 confidence interval.  Q Okay. We have talked about your position on statistical significance already today, correct?  A Correct.  Q Does that position apply in your mind to this issue as well, the statistical significance of heterogeneity?  MS. PARFITT: Between patent and non-patent?  A Between these two groups?  Q Yes.  A Yes. My opinion is that, you know, once you star stratifying data in any sort of way when you already have a limited number of, you know, subjects, you are just absolutely losing the power	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 tt19 20 21 22	adds some information about the length of exposure.  Q Okay. Do you have any concerns with the power of the cohort studies to detect the level of association that you ascribe, which is the 1.25?  A I feel on their own they would be underpowered to detect that association.  As a group, despite the fact that they ask questions somewhat differently, they have had to harmonize data that are perhaps not perfectly able to be harmonized because it's not the exact same question being asked for the exact same timeframe for all these studies.  So it's a less than perfect harmonization. I do think that it is potentially still underpowered.  Q And "it" you are referring even with O'Brien?  A Yes. Even summarized together.  Q Let's look at your report.

	Page 266		Page 268
1	Q You are talking about Berge. At the very bottom,	1	underpowered to detect the magnitude of
2	the second to bottom sentence you say, and you are		association that you are claiming in your report,
3	quoting here, "Thus, low power of cohort studies	3	which is the 1.25?
4	cannot be invoked as explanation of the	4	
5	heterogeneity of results."	5	have I performed a post-hoc power analysis because
6	Do you see that sentence that I read? That	6	that is also something that, generally speaking,
7	is from Berge, correct?	7	we try to power studies upfront versus
8	A I'm missing where you are.	8	retrospectively, to really, to make that statement
9	Q No worries. Three from the bottom.	9	clearly.
10	A Okay. So I'm seeing, "It should be noted that the	10	•
11	cohort"		I go back to compared to a very well-designed
		11	case control study, and there are a number of
12	Q Yes. Just read to yourself.	12	them, that these cohorts are still underpowered to
13	A Okay.	13	detect associations of that magnitude.
14	Q Then carry on to finish that hanging sentence.	14	And, further, they have got some issues with
15	A Yes. So they are noting that it was just they	15	either classification or selection bias at the
16	note the 429 in this WHI study. "So while the	16	time of study entry that makes them kind of have
17	statement isn't completely correct, the point is	17	different concerns than case control studies, but
18	the same. Power also depends on the variation of	18	there are still concerns with regards to the
19	the prevalence of the exposure between cases and	19	methodology and the ultimate findings.
20	controls, but it is not described."	20	There are strengths and weaknesses of both
21	I just felt like that is not necessarily a	21	types. Cohort studies are perhaps not as well
22	complete power analysis. It does not give me	22	suited as the case control.
23	enough information.	23	And because the case control has kind of been
24	Q Okay. I read that sentence to indicate that you	24	the standard for decades for this research
25	sort of agreed with the proposition in Berge that	25	question, there is just a lot more data there and
	Page 267		Page 269
1	low power was not really a problem.	1	a lot more detailed data there.
2	Did I misread that?	2	Q Okay. In your table on Page 22 of your report
3	A Yes.	3	A Yes.
4	MS. PARFITT: Objection. Form.	4	Q you include a summary table of the
5	Q That is fine. That is all I needed.	5	meta-analyses and Terry and O'Brien pooled
6	A Okay.	6	analyses, correct?
7	Q Your contention today, you believe that even with	7	A Yes.
8	O'Brien there is still a power problem, is that	8	Q For the O'Brien article you have listed only the
9	correct?	9	association for patency, correct?
10	A For the	10	A Yes.
11	MS. PARFITT: Objection to the form.	11	Q You did not do that for any of the other studies,
12	It's a bit vague, Scott, when you read the	12	correct?
13	record.	13	A Correct. I highlighted that one because the
14	Do you want to try that one again?	14	patency issue to me was the standout point in
15	Q Sure. Even with the O'Brien study. The data	15	O'Brien.
16	A The four cohort study analysis in the 2020 paper?	16	So that is really just to remind myself that
17	Q Yes. The O'Brien 2020 paper which collects more	17	this is, this is something that came up. In
18	data on the cohorts, correct?	18	particular, it came up in the response to the
10	A Yes. Correct.	19	reviewer.
19	Trues. Correct.		Just to be clear, this first editorial is
	Q So that is the most recent analysis we have of the	20	Just to be clear, this first editorial is
19		20 21	published at the time of the O'Brien paper as kind
19 20	Q So that is the most recent analysis we have of the		
19 20 21	Q So that is the most recent analysis we have of the cohort data, correct?	21	published at the time of the O'Brien paper as kind
19 20 21 22	<ul><li>Q So that is the most recent analysis we have of the cohort data, correct?</li><li>A Yes.</li></ul>	21 22	published at the time of the O'Brien paper as kind of a highlight. These are usually invited reviews
19 20 21 22 23	<ul><li>Q So that is the most recent analysis we have of the cohort data, correct?</li><li>A Yes.</li><li>Q And O'Brien 2020?</li></ul>	21 22 23	published at the time of the O'Brien paper as kind of a highlight. These are usually invited reviews by the Journal. That is the Gossett paper,

	D 2770		D 272
1	Page 270 O'Brien and then the invited commentary from a	1	Page 272 expert for the plaintiffs?
2	year or so later, really reverses her overall	2	A No, I know that Dr. Cramer published the first
3	statement that there was no association seen. And	3	study in 1992. This has pretty much been his
4	that was why I listed that to highlight that one.	4	life's work. I don't know if he was ever
5	Q So your contention is that in this Table 3 you	5	retained, I don't know for any of them if they
6	have listed O'Brien 2020 patent numbers only.	6	were retained by the plaintiffs and what date, as
7	A Uh-huh.	7	well as by the defense and what date.
8	Q That is, in part, because you believe O'Brien has	8	Can you go back and forth?
9	reversed her conclusions from her 2020 paper, is	9	Q I'm trying to move us along. The Cramer 2016
10	that correct?	10	paper that you cited, did you see a disclosure in
11	A It was just to draw my attention to it, similar to	11	that paper?
12	Davis above that. The focus of the Davis paper	12	Do you recall that?
13	was to see if there were any differences between	13	A I don't recall.
14	African-American and White women with respect to	14	Q Regardless, with respect to the letters to the
15	risk. You know, similar to the Phung paper where	15	editor and then you said Dr. O'Brien wrote a
16	I list the endometriosis and no endometriosis.	16	response, correct?
17	It's really just to give myself and those	17	A Correct.
18	reading, you know, anything notable about the	18	Q If you look at the bottom of Page 19 of your
19	study. And that was with the O'Brien original	19	report
20	study from 2020, the original analysis, that was	20	A Yes.
21	what stood out to me there.	21	Q you have underlined and are referring to her
22	Q Is your position that from O'Brien 2020, the only	22	response, correct?
23	finding left standing after this so-called	23	A Her response, yes.
24	reversal is the patency finding?	24	Q You say, "This reverses the conclusion of the
25	MS. PARFITT: Objection to form.	25	original manuscript that stated 'there was not a
	Page 271		Page 273
1	Page 271 A No. No, not at all.	1	e e
1 2	A No. No, not at all.	1 2	statistically significant association between use
l .			e e e e e e e e e e e e e e e e e e e
2	A No. No, not at all.  Q The letters to the editor that you are identifying	2	statistically significant association between use of powder in the genital area and ovarian
2 3	<ul><li>A No. No, not at all.</li><li>Q The letters to the editor that you are identifying are from Cramer, Harlow, and Roth, correct?</li></ul>	2 3	statistically significant association between use of powder in the genital area and ovarian cancer'."
2 3 4	<ul><li>A No. No, not at all.</li><li>Q The letters to the editor that you are identifying are from Cramer, Harlow, and Roth, correct?</li><li>A Yes. Those were the ones, yes.</li></ul>	2 3 4	statistically significant association between use of powder in the genital area and ovarian cancer'."  That is the language from your report, is
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2 3 4 5 6	<ul> <li>A No. No, not at all.</li> <li>Q The letters to the editor that you are identifying are from Cramer, Harlow, and Roth, correct?</li> <li>A Yes. Those were the ones, yes.</li> <li>Q We talked this morning, those are all retained experts for the plaintiffs, correct?</li> </ul>	2 3 4 5 6	statistically significant association between use of powder in the genital area and ovarian cancer'."  That is the language from your report, is that correct?
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	D 274		P 27(
1	Page 274 association that is not statistically significant	1	Page 276 came up in the Cramer discussion, as well as the
2	and it can still be meaningful.	2	earlier discussion, the second letter that I
3	Q Has a retraction to the O'Brien 2020 article been	3	referred to from Harlow and Rothman.
4	published?	4	Q Do you agree with O'Brien's response where she
5	A I think that the review that she wrote a year	5	still highlights that recall bias is still present
6	later, it is not an official retraction of this	6	in the retrospective studies?
7	2020 paper, but I believe it, if not completely	7	Do you agree with that portion of the
8	reverses her findings, I think it restates them in	8	response, also?
9	a manner that states that there is a positive	9	A I would have to go and see exactly what she had to
10	association between talc use and ovarian cancer.	10	say.
11	Q Has JAMA issued any sort of statement or	11	But globally do I agree with the statement
12	retraction?	12	that recall bias may be present in some case
13	A No. But it would be unusual for a journal to do	13	control studies depending on the exposure, yes.
14	so unless there were issues in terms of, like, if	14	Q Did all of the authors on the O'Brien 2020 paper
15	the data were misrepresented or out of order,	15	sign on to this letter response?
16	something along those lines. Or if they found	16	A I don't have that knowledge. We can look and see.
17	there was any kind of fabrication of data.	17	MS. PARFITT: Scott, are you talking about
18	And I'm not suggesting that whatsoever.	18	the O'Brien reply? I have a copy. Let me show it
19	Q Have you talked with any of the authors of the	19	to her.
20	O'Brien paper?	20	MR. JAMES: Okay. Go for it.
21	A No.	21	MS. PARFITT: Mine is highlighted.
22	Q With all due respect, to say that something was	22	MR. JAMES: No worries. I will just mark
23	reversed via a letter to the editor is a pretty	23	it as well.
24	remarkable claim, don't you think?	24	MS. PARFITT: Oh, no.
25	MS. PARFITT: Objection.	25	A I should have a copy. Let me see what number it
			7.5
	Page 275		Page 277
1	Counsel, is that an argument or a question?	1	Page 277 is. 76.
2	Counsel, is that an argument or a question? MR. JAMES: It's clearly a question.	2	Page 277 is. 76.  Q Here, I will just hand you a copy.
2 3	Counsel, is that an argument or a question?  MR. JAMES: It's clearly a question.  Q I mean, it seems remarkable to me.	2 3	Page 277 is. 76.  Q Here, I will just hand you a copy.  A I have it.
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1	Page 278	1	Page 280
1	dozen studies that support recall bias, that show	1	at it right now?
2	evidence that there is potential recall bias.		A Yes.
3	The recall bias we believe as an author on	3	Q You also stated in your report that you give more
4	that study was introduced because of this talc	4	weight to invited reviews, something along those
5	litigation. All of those other prior studies,	5	lines, is that correct?
6	they asked those questions years, if not decades,	6	MS. PARFITT: Objection to the question.
7	before in different countries even and we saw the	7	You can answer.
8	same results.	8	A Yeah. I'm not sure I said I give more weight to
9	So the empirical evidence that she states is	9	invited reviews. I do think I give less weight to
10	based on exactly one study.	10	just investigator initiated general reviews.
11	Q So you think that the medical and scientific	11	Q Okay. For the Wentzensen and O'Brien 2021
12	community believes that the only source of recall	12	article, are you aware that they stated in that
13	bias in the talc ovarian cancer studies is the	13	article that it is difficult to conclude that the
14	onset of litigation in 2014?	14	observed associations are causal?
15	MS. PARFITT: Objection. Misstates her	15	Do you recall that language?
16	testimony.	16	MS. PARFITT: Can you tell us, are you at
17	A Yeah. No, I never stated that. I stated that the	17	a specific place?
18	empirical evidence that she cites here to	18	Q I didn't see that highlighted in your report. I
19	support this empirical evidence supports that	19	was wondering if you noticed that observation?
20	recall bias is present in retrospective studies,	20	MS. PARFITT: Objection to form.
21	she just really cites one source, which is that	21	A The observation I see related to that in the
22	Schildkraut paper. That is it.	22	abstract is kind of buried in the middle that says
23	Q But she is just writing a response letter,	23	the causal factors underlying this association are
24	correct?	24	not clear.
25	A Well, sure.	25	Q Okay. So I've just handed you what I have marked
1	Page 279  Q Would you have liked her to have done an expose	' 1	Page 281 as Exhibit Number 24.
2	on recall bias in the talc ovarian cancer studies?	2	(EXHIBIT NUMBER 24 WAS MARKED FOR
3	MS. PARFITT: You asked her two questions		IDENTIFICATION.)
4	Do you want her to answer both?	4	A Yes.
5	You have two questions out there, Scott.	5	Q Let's look at Page 9. In this article that
6	A Now I have forgotten the two questions.	6	postdates the O'Brien article from 2020, and it
7	Q Okay. Let's just move on.	7	postdates the letter to the editor response.
8	A Okay. The original question, as to did everyone	8	Dr. O'Brien published this article, correct?
9	sign off, O'Brien, Sandler, Wentzensen on the	9	A Yes.
10	original paper was it was, yes, three out of		
11	• • • • • • • • • • • • • • • • • • • •	10	Q That was a clunky question, but this came after?
1	four. Actually, I don't know who this no. No.	11	A Yes.
12	Not the 2000. Not this one. The 2020. No.	12	Q We can see at the top of Page 9 in this review
13	So who signed off on it? It was the senior,	13	Dr. O'Brien says that, "Independent of the
14	or the senior author, Wentzensen. Then Dale	14	underlying cause, the association between powder
15	Sandler and Dr. O'Brien. So the first and the two	15	use and ovarian cancer is weak."
16	most senior authors signed off.	16	Do you see that?
17	So, no, it was not signed off on by	17	A I do.
18	everybody. Thank you for that.	18	Q Would you agree with her that the association is
19	Q A few moments ago you referred, I believe, to the		weak?
20	2021 review article by Wentzensen and O'Brien,		A No, I would not characterize an association as
21	correct?	21	weak. I might characterize, you know, other
22	A Yes.	22	factors. But an association I would characterize
23	Q Okay.	23	with a point estimate.
24	A I'm trying to get to it.	24	Q You would never
25	Q You discuss that in your report. You are looking	25	A A number. I would not try to assign some sort of

	D 202		D 204
1	Page 282 scale that if it was between X and Y it's weak and	1	Page 284 When they talk about things like the lack of
2	if its between Y and Z it's moderate and so forth.	2	a good experimental model, the lack of a specific
3	Q If I hear you correctly you would not, as an	3	biomarker for powder-related carcinogenesis, and
4	epidemiologist, refer to an association as weak or	4	then the lack of where am I and the
5	modest or strong, is that correct?	5	inability to rule out confounding by indication,
6	Did I understand you correctly?	6	there's a lot of other associations in the world
7	•	7	of cancer more broadly that we don't have those
8	just present the data.	8	sorts of things for but that, again, we as either
9	Q Do you recognize that an association of 3.0 is	9	the scientific community or as, you know, the
10	stronger than an association of 1.5?	10	larger community as a whole still consider to be
	A I would say it's larger at this point. I don't	11	even without this clear causal factor that they
12	know if I would use the terminology stronger any	12	are looking at or these clear biomarkers, that
13	more.	13	point, you know, with the hundred percent
14	Q If you look down below in that same paragraph	14	certainty that this is it.
15	below the 32 note, here is the language I was	15	We make policy decisions every day that are
16	referring to.	16	based on things with a lot less evidence than what
17	A Okay.	17	they, the standard that they are holding to
18	Q She says, "Given the inability to attribute a	18	causality here.
19	clear causal factor to the observed associations,	19	A good example of that comes, again, from
20	the lack of a good experimental model, the lack of	20	my
21	a specific biomarker for powder-related	21	Q Dr. Cote, my time is really limited. This is not
22	carcinogens, and the inability to rule out	22	really responsive to my question.
23	confounding by indication, it's difficult to	23	MS. PARFITT: I believe it is. Let her
24	conclude that the observed associations are	24	finish. She will make it efficient.
25	causal."	25	MR. JAMES: Counsel has an opportunity
	- Causair		
	D 202		D 205
1	Page 283	1	Page 285
1 2	Did I read that correctly?	1 2	MS. PARFITT: I'm sure she will bring it
2	Did I read that correctly?  A You read that correctly.	2	MS. PARFITT: I'm sure she will bring it to a close. Let her at least finish that
2 3	Did I read that correctly?  A You read that correctly.  Q Despite our back and forth on what the letter	2 3	MS. PARFITT: I'm sure she will bring it to a close. Let her at least finish that thought.
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2 3 4 5 6	Did I read that correctly?  A You read that correctly.  Q Despite our back and forth on what the letter response meant, at least as of 2021 Dr. O'Brien is still expressing that it's difficult to conclude that the association is causal, is that fair?	2 3 4 5 6	MS. PARFITT: I'm sure she will bring it to a close. Let her at least finish that thought.  A I will bring it to a close right now in saying lung cancer, for example, we make policies about pollution and we make policies about radon where
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1	Page 286	1	Page 288
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	you deem to be analogous or relevant in some way	l	meta-analyses that show consistency, right, to say
l	Specifically you cite to colorectal cancer,	2	that all of those meta-analyses are consistent,
3	right?	3	one also cannot disregard the fact that the
4	A As one. Is this the executive summary? I'm sorry	l .	consistency is, in part, at least driven by the
5	to interrupt.	5	fact that they are all crunching the same numbers,
6	Q My question is more in general, are you aware of	l	correct?
7	any associations in the 1.25 range that are not	7	MS. PARFITT: Objection to form.
8	causal just across the world of cancer	8	A I would say overall that that is a correct
9	epidemiology?	9	statement. In the most recent meta-analyses,
10	A Sure. There could be those associations that are	10	again, they have been trying to examine the data
11	not causal. It could be an association that is	11	in different ways that provide more insight about
12	simply being driven by a confounding.	12	the exposure or about other potential factors
13	Q You didn't cite any examples of that in your	13	associated.
14	report, correct?	14	For example, the Phung study with
15	A No. Because I was, you know, trying to establish	l .	endometriosis. The Woolen study looking at kind
16	whether or not there was causality. I didn't go	16	of the higher ends of exposure in the studies.
17	through and do a causal association analysis	17	They are trying to look at different ways to
18	looking at all of the different factors associated	18	classify the exposures that adds something novel.
19	with Bradford Hill for, you know, I would have	19	Q The meta-analyses that consider the same data
20	never completed this in that timeframe. This	20	build on one another, correct?
21	would have been another several hundred hours of	l	A That is correct.
22	work.	22	Q You are making that point in your report?
23	Q With respect to meta-analyses on Page 22 of your	l	A Yes.
24	report, please.	24	Q Meta-analyses also do not correct for underlying
25	A Okay. I am there.	25	problems with the data?
	Page 287		Page 289
1	Q You say below the table that the meta-analyses	1	MS. PARFITT: Objection to form.
2	were consistent in reporting a positive	2	Q I will be more precise. Meta-analyses do not
3	association between ever never talc use, correct?	3	correct for recall bias that is embedded in the
4	That is in the first sentence.	4	data, correct?
· .	A Yes.	5	·
6	Q You say, "This is not entirely surprising, as each		A Actually that is not an entirely correct
		6	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted
	newer meta-analysis contains the studies examined	7	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted estimates from each of the studies. Those
8	newer meta-analysis contains the studies examined in the earlier meta-analyses, in addition to more	7 8	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted estimates from each of the studies. Those estimates are from adjusted models that reduce the
9	newer meta-analysis contains the studies examined in the earlier meta-analyses, in addition to more recent publications." Correct?	7 8 9	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted estimates from each of the studies. Those estimates are from adjusted models that reduce the effects of confounding.
9 10	newer meta-analysis contains the studies examined in the earlier meta-analyses, in addition to more recent publications." Correct?  A Yes.	7 8 9 10	A Actually that is not an entirely correct statement. Most meta-analyses use adjusted estimates from each of the studies. Those estimates are from adjusted models that reduce the effects of confounding.  That is one of the goals of adjusting for
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recall bias can be reduced, if not eliminated, 14 questionnaires for all of the case control	
	e
15 using some of these techniques. And so it's the 15 studies?	
quality of the studies that are included. 16 A No, I have not looked at them all. I have looked at them all.	
One of the advantages of case control studies 17 at the materials and methods in enough detail	that
is that you can do a very well designed case 18 I'm confident that they did what they could to	
19 control study that asks a lot more detailed 19 reduce recall bias.	
20 questions about exposures.  20 Q But so has everyone else in the world of talc	
21 Q Did you testify that the meta-analyses have 22 eliminated the recall bias in the case control 21 ovarian cancer literature. They have all looke 22 at the methods in the published paper.	a
23 studies? 23 Almost to a fault, everyone is saying that 24 A I'm not saying that they have eliminated it 24 one of the things going on in these talc ovaria	,
25 through meta-analysis. I'm saying that the design 25 cancer is recall bias. Right?	.1
- I	293
1 of case control studies helps reduce the amount of 2 recall bias in each individual study. The 2 of the cohort studies. It's stated in all 2 of the cohort studies. It's stated in all of the	
2 recall bias in each individual study. The 3 meta-analysis itself, no. 2 of the cohort studies. It's stated in all of the meta-analyses, at least until Woolen.	
4 Q For these case control studies, for the talc  4 This is not a claim that you didn't read.	
5 ovarian cancer case control studies, what have you 5 You were aware that people are claiming this at	
6 done qualitatively and quantitively to determine 6 least in the literature, correct?	
7 in your mind that those questions are asked in a 7 MS. PARFITT: Objection to form.	
8 certain way, you know, such that recall bias is 8 A I would claim that recall bias in case control	
9 not a problem? 9 studies, not even specific to talcum powder and	
Have you looked at all of the study  10 varian cancer, that is a potential limitation of	
11 questionnaires? 11 the study design of a case control study.	
Have you compared them against the results? 12 I would also say that with this particular	
What have you done? 13 research question, that the evidence for recall	
I see that you cited the Cramer article on 14 bias is limited. And it is really just limited to	
15 recall bias. 15 the Schildkraut study. And even amongst women	
Have you undertaken a critical analysis of 16 that we don't think had a significant exposure,	
these case control studies to conclude that recall 17 potential to recall bias, you know, there is also	
these case control studies to conclude that recall 17 potential to recall bias, you know, there is also	
these case control studies to conclude that recall potential to recall bias, you know, there is also the possibility that there was just	
these case control studies to conclude that recall potential to recall bias, you know, there is also bias is not really a problem? 18 the possibility that there was just underreporting.	
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these case control studies to conclude that recall bias is not really a problem?  MS. PARFITT: Objection. Form.  MS. Parfitt: Objection. Form.  A I have looked at each one of these studies at the material and methods and  Q In the paper itself?  Dotential to recall bias, you know, there is also the possibility that there was just underreporting.  That is another possibility that we don't talk about. And if that was the case, we would be misclassifying people and driving these odds	

	Page 294		Page 296
1	101.	1	Q Do you see that?
2	Do we have great evidence of it for this	2	A Yes. So they "performed a systematic review of
3	particular association? No, we don't.	3	the literature with the goal of identifying
4	Q And so all of the authors of all of the papers	4	studies that captured data on frequency of use"
5	that do mention that what is going on in some of	5	I am not saying in various ways.
6	these case control studies is recall bias, all of	6	Q Let me see if I can find that quote.
7	those authors are just wrong?	7	A Okay.
8	MS. PARFITT: Objection. Misstates the	8	Q The bottom paragraph, "In 2022" in the third
9	evidence in this case.	9	sentence you say "Frequency of use was captured
10	A I absolutely did not say that. I said that that	10	various ways."
11	is always a potential for the types of studies	11	Do you see that? That is four lines down.
12	case control studies always have the potential for	12	A From the top of the paragraph?
13	recall bias.	13	Q Yes.
14	Just like cohort studies always have the	14	A Oh, yes. That was across the different studies.
15	potential for loss to follow-up, which means you	15	Can we back up and just go on record as
16	don't follow your participants until the end maybe	16	
17	for reasons that are very different because they	17	_
18	are too sick to answer and so forth.	18	A So the sentence prior it should state "Of all
19	So there are study design issues inherent to	19	
20	all of the types of study designs.	20	analysis (10 case-control, 1 cohort)."
21	Q Okay. I'm going to mark as Exhibit 25 the Woolen	21	
22	paper.	22	A I don't know where my numbers went there.
23	(EXHIBIT NUMBER 25 WAS MARKED FOR	23	Yes, frequency of use was captured in various
24	IDENTIFICATION.)	24	ways.
25	A Yes.	25	Q Yes or no, do you have any concerns with the wa
	Page 295		Page 297
1	Q As we discussed this morning, Smith-Bindman is a	1	frequency was captured for this study?
2	paid plaintiffs' expert in this MDL talc	2	A I do not because they outlined clearly what their
3	litigation, correct?.	3	intent was in their material and method section.
4	MS. PARFITT: Objection.	4	Q You note in the report that the only cohort data
5	Q Are you aware of that?	5	came from NHS I.
6	A I believe so, yes.	6	That was from O'Brien, correct?
7	Q Okay. Do you know any history behind the efforts	7	A Yes.
8	to publish this paper?	8	MS. PARFITT: Objection.
9	A I do not.	9	Q You say that had the required frequency of use
10	Q Do you know if the genesis of this paper was in a	10	,
11	litigation report?	11	•
12	A I do not.	12	, , , , , , ,
13	Q Do you know anything about Smith-Bindman's	13	required by the author's parameters?
14	experience or qualifications or credentials to	14	1
15	conduct a meta-analysis?	15	• 1 0
16	A I do not.	16	
17	Q Have you ever communicated with any of the authors	17	
18	of this paper?	18	•
19	A No.	19	± •
1	Q Have you reviewed any peer reviewed comments	20	•
20		21	A I don't know that to be certain.
20 21	associated with this paper?	21	
21	associated with this paper?  A No, I do not. I would not.	22	
21	A No, I do not. I would not. Q On Page 17 of your report, you say that frequency	22 23	defined as at least two times per week, did you
21 22 23 24	A No, I do not. I would not.	22	defined as at least two times per week, did you know that?

	Page 298		Page 300
1	Health Initiative just captured duration versus	1	In that report there was a dose response with
2	frequency.	2	increasing risk with increasing frequency of
3	Q The effect of the requirement by the authors was	3	talcum powder used with the hazard ratio of 1.4
4	to, had the effect of excluding all of the cohort	4	for daily users. Confidence interval 1.7 to 1.68
5	data except the NHS I data, correct?	5	for daily users.
6	MS. PARFITT: Objection to form.	6	I think really they are just using that as
7	A That was based on how they defined, you know, what	7	data to compare to their pooled meta-analysis.
8	sort of exposure data that they needed. Yes, it	8	Q Right. My question was, do they explain why they
9	had that effect.	9	used the patent finding only from NHS I, but not
10	But it also, you know, excluded a large	10	any other subgroup findings for the other
11	number of case control studies as well. There	11	studies?
12	were forty-one studies excluded. From the	12	A No, they do not describe why they do that. Other
13	fifty-two that they started with, they went down	13	than to say that it was the highest frequency of
14	to eleven.	14	use. So, no.
15	So it excluded, you know, a large portion of		Q Again, to be clear, they subsetted it even more.
16	the case control as well.	16	They didn't just do highest frequency. They did
17	Q Did you notice what the authors did when they	17	highest frequency patent only, correct?
18	cited a paper that had multiple ORs that met the	18	MS. PARFITT: Objection. Form.
19	parameters of the paper?	19	A It appears that way for, yes, for that analysis.
20	Did you critically evaluate that?	20	Q Do you know that the NCI PDQ refers to this study
21	A Yeah. I believe it was stated as how they	21	as having a highly selected subset analyses?
22	extracted the data, that they reported the highest	22	A Yes, I am aware.
23	talc use used.	23	Q Do you know that the NCI PDQ notes that because of
24	Q The highest odds ratio?	24	the structure of the Woolen analysis the results
25	A Yes.	25	should be interpreted with care?
			_
	Page 299		Page 301
1		1	Page 301 MS. PARFITT: Objection. Form.
1 2	e		Page 301  MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But
	Q Not the highest talc use. Were you aware that		MS. PARFITT: Objection. Form.
2	Q Not the highest talc use. Were you aware that they picked any paper that they came across	2	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But
2 3	Q Not the highest talc use. Were you aware that they picked any paper that they came across with multiple ORs that could have been used to	2 3	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But the PDQ is it's not all of the National Cancer
2 3 4	Q Not the highest talc use. Were you aware that they picked any paper that they came across with multiple ORs that could have been used to meet their parameters, are you aware that they	2 3 4	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But the PDQ is it's not all of the National Cancer Institute. It is
2 3 4 5	Q Not the highest talc use. Were you aware that they picked any paper that they came across with multiple ORs that could have been used to meet their parameters, are you aware that they picked the highest OR?	2 3 4 5 6	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But the PDQ is it's not all of the National Cancer Institute. It is  Q That was not my question.
2 3 4 5 6	Q Not the highest talc use. Were you aware that they picked any paper that they came across with multiple ORs that could have been used to meet their parameters, are you aware that they picked the highest OR?  MS. PARFITT: Objection. Misstates the	2 3 4 5 6 7	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But the PDQ is it's not all of the National Cancer Institute. It is  Q That was not my question.  MS. PARFITT: Let her finish.  Q It was strictly limited to the PDQ.
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2 3 4 5 6 7 8 9 10 11 12	Q Not the highest talc use. Were you aware that they picked any paper that they came across with multiple ORs that could have been used to meet their parameters, are you aware that they picked the highest OR?  MS. PARFITT: Objection. Misstates the evidence in the case.  A What I'm aware that they selected was based on how they say they extracted their data, which is when duplicate reports of the same subjects were published, the publication reporting the highest talc use was selected.  Q Did they restrict any of the other data sets to	2 3 4 5 6 7 8 9 10 11 12	MS. PARFITT: Objection. Form.  A Yes. I believe we covered that this morning. But the PDQ is it's not all of the National Cancer Institute. It is  Q That was not my question.  MS. PARFITT: Let her finish.  Q It was strictly limited to the PDQ.  A The PDQ does not represent the NCI. It is a  Q That is not my question.  A subgroup of the  Q We are running out of time. That is not my question.
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Page 302	Page 304
1 their comment was that the results of the paper	1 in dose.
2 should be interpreted with care.	2 It would be really difficult to discern that
3 That was their comment, correct?	3 because a lot of women, they use multiple forms.
4 MS. PARFITT: Objection to form.	4 They use it's hard to disentangle one from the
5 A Correct, that was their comment.	5 other.
6 Q That is the PDQ that Karmanos links to, ACR links	6 And the number of diaphragm users is very,
7 to, correct?	7 very low compared to the women who are using it
8 We looked at that this morning.	8 overall.
9 MS. PARFITT: Objection. Form.	9 So the biological plausibility, what I look
10 Q That is yes or no.	at was just general genital use of talcum powder.
11 A Yes.	11 Q For recall bias, did recall bias I know you
12 Q Do you agree that the hospital-based case control	testified about the evidence from the Schildkraut
13 studies do not show statistically significant	13 study, correct?
14 associations?	14 A Yes. Correct.
15 A I would need to go back and look at my list of	15 Q Does recall bias exist in the studies for reasons
16 hospital-based studies in case control.	other than media attention or litigation news that
17 Q I will just withdraw the question.	17 onset in 2014?
18 A Okay.	18 A Could recall bias with referring to talc use?
19 Q Do you think hospital-based case control studies	19 Q Correct.
20 have any advantages over population-based case	20 A Be impacted by other factors? Potentially, yes.
21 control studies? Yes or no?	But I can't think of any other factors that
22 A No.	22 might drive that sort of, that sort of
23 MR. JAMES: Off the record.	23 association. We do ask in these questionnaires
24 (OFF RECORD AT 5:20 P.M.)	24 about so many other exposures. Part of that is so
25 (AT THIS TIME A SHORT RECESS WAS HELD OFF	25 that we are not we never disclose to a person
Page 303	Page 305
1 THE RECORD AFTER WHICH THE FOLLOWING PROCEEDINGS	1 participating in our studies what the exact
2 WERE HAD:)	2 hypotheses are.
3 (ON RECORD AT 5:22 P.M.)	We are generally interested in learning why
4 BY MR. JAMES:	4 one person develops ovarian cancer versus another.
5 Q Sitting here today do you know if the studies that	5 We ask a wide range of things to help reduce the
6 have evaluated the association between talc on	6 risk of recall bias.
7 diaphragms and sanitary napkins show a	7 Q One of the points that you make in your report
8 statistically significant association with ovarian	8 about recall bias is that recall bias might exist
9 cancer?	9 if the exposure event is one that could be
10 A I did not look at that subset of women. I didn't	10 considered sensitive.
11 look at the exact usage in the genital area. So,	Do you recall making that comment?
12 no.	12 A Yes.
13 I do know some studies collected that level	13 Q Is it your contention that women would not find
14 of detailed data.	the application of talcum powder to the perineal
15 Q Do you believe that the application of talcum	15 area to be a sensitive topic?
16 powder on diaphragms or sanitary napkins could be	16 A Correct.
17 more biologically relevant for your plausibility	17 Q You do not think that is a sensitive
18 hypothesis than perineal application?	18 A I do not think that that is a sensitive issue.
19 MS. PARFITT: Objection. Form.	19 Q You also, in commenting on recall bias with
20 Answer if you can.	20 Cramer, you do discuss Cramer's 2016 paper in
21 A I don't think there is data to support that. When	21 regard to recall bias, correct?
22 I think about it from a biological standpoint	22 A Right.
23 perhaps, you know, diaphragm use, just because	23 Q One of the launching points in your report from
1 P-7,5	
24 it's inserted internally, if it was dusted with	
<ul> <li>24 it's inserted internally, if it was dusted with</li> <li>25 talcum powder perhaps there would be a difference</li> </ul>	

Page 306	Page 308
1 because there is no association with non-genital 1 A Correct.	rage 300
2 talc use. 2 Q Do you think strength standing alone	e by itself as
3 Do you recall that being one of Cramer's 3 its own factor is an important factor to	
4 points? 4 A I do.	
5 A I'm looking at his points right here at the top of 5 Q Do you think strength in the talc ova	rian cancer
6 Page 28? 6 literature is met?	
7 Q Yes. 7 A I do.	
8 A So this was the most recent Cramer paper. 8 Q But you will not, you do not, do you	refer to the
9 Q Reason Number 2. Do you see that there? 9 1.25 association that you claim as stro	ong?
10 A Yes. These were, this was a discussion provided 10 A So that is a single point estimate. I was	would say
11 by Cramer about recall bias. 11 that the strength of the associations, the	he
12 Q You said you agree with them? 12 positive associations as a whole are st	trong.
13 A Yes. I'm in agreement with that explanation as a 13 The one study that points to a 1.25	would not
whole. 14 be enough for me to say that single or	ne is strong.
15 Q Understood. With just respect to point two, you 15 Again, that goes into the labeling of	of a
do, in fact, understand that there are studies 16 single point estimate on some sort of	scale which
17 that report associations with non-genital use 17 I don't intend to do.	
18 including Schildkraut, correct? 18 Q At the bottom of that section you say	
19 A Correct. Yes. 19 second to last sentence, "This effect is	
20 Q Let's go to your Bradford Hill analysis. 20 diminished whatsoever by the strengt	h of the
21 A Okay. 21 association."	
22 Q That is Page 35.  22 Do you see that sentence?	
23 A Yes. That is the introduction, I believe. 23 A Yes.	
24 Q I'm getting close to the end and my time is almost 24 Q And can you briefly tell me what yo	
25 up. 25 A Yes. So when I talk about the effect	r, I'm
Page 307	Page 309
1 A All right.  1 referring to, I think, the sentence before 1. The sentence of the sentence o	
2 Q So with respect to your Bradford Hill analysis, 3 When I talk about just even that simply you note on Page 36, "Hill noted that the first 3 measure of perineal talc and the association of the perineal talc and the perineal talc and the association of the perineal talc and talc and the perineal talc and	
you note on Page 36, "Hill noted that the first two considerations, strength of association and two considerations, strength of association and ovarian cancer was nearly constant re	
5 consistency could be considered together." 5 study population, decade of study enr	-
6 Do you see that sentence? 6 race and ethnicity.	omment, and
7 A Yes, I do. 7 So then I go on to say, "This effect	t is not
8 Q Are you contending that that statement is in  8 diminished whatsoever by the strength	
9 Hill's 1965 paper? 9 association."	ir or the
10 A It's perhaps not directly quoted, but strength of 10 Just because the point estimate see	en in those
11 association and consistency of the studies have 11 various studies was not 5.2 or 3.7 it d	
12 similar underpinnings. 12 diminish the fact that there is still a st	
You would use similar data to assess that. 13 of association there and that the consi	-
Consistency would be how consistent is the point 14 think, is very, very strong.	•
estimate across a various number of studies. So   15 Q Do you agree that Hill recognized th	at for
the strength of the association is based on those 16 consistency a great deal of weight sho	
point estimates. 17 placed upon different study designs sl	
18 Q Okay. My real precise question here, is Hill your 18 same results?	-
authority for the proposition that strength and 19 A I'm not sure I took that from Hill's or	riginal work
20 consistency can be considered together? 20 in 1965.	
20 consistency can be considered together? 20 in 1965. 21 That is what you are referring to here? 21 Q Just real quick I will mark Hill as where the considered together? 22 Q Just real quick I will mark Hill as where the considered together? 23 Q Just real quick I will mark Hill as where the considered together? 24 Q Just real quick I will mark Hill as where the considered together? 25 Q Just real quick I will mark Hill as where the considered together? 26 Q Just real quick I will mark Hill as where the considered together? 27 Q Just real quick I will mark Hill as where the considered together? 28 Q Just real quick I will mark Hill as where the considered together where the considered to	natever our
	natever our
21 That is what you are referring to here? 22 A Yes. 23 Q The Bradford Hill analysis, strength is one 21 Q Just real quick I will mark Hill as what was. 22 last exhibit was. 23 (EXHIBIT NUMBER 26 WAS M	
21 That is what you are referring to here? 22 A Yes. 21 Q Just real quick I will mark Hill as where the sum of	ARKED FOR

	Page 310	Page 312
1	A Yes.	1 necessarily a strong factor because we are
2	Q this is in discussing Consistency. That starts	2 starting to learn that, you know, as we learn more
3	on Page 8 and it rolls to Page 9.	3 about biology, specificity is not as strong of an
4	He says, "I would myself put a good deal of	4 element.
5	weight upon similar results reached in quite	5 You know, certain things, even like biologic
6	different ways, e.g. prospectively and	6 plausibility, you need to have some understanding
7	retrospectively."	7 of the basic biological underpinnings. Sometimes
8	Do you see that?	8 our basic science just has not caught up yet.
9	A Yes.	9 MR. JAMES: I'm saving myself four
10	Q He is referring to consistency among study design	n,10 minutes.
11	correct?	11 MS. PARFITT: We will take a brief break.
12	A Yes.	12 (OFF RECORD AT 5:40 P.M.)
13	Q Do you agree with that, that one component of	13 (AT THIS TIME A SHORT RECESS WAS HELD OFF
14	consistency is consistency among or between study	,
15	designs?	15 WERE HAD:)
16	A Not necessarily because as we have been stating	16 MR. JAMES: For the record correction,
17	all day, there are strengths and limitations to	17 Exhibit 24 is the O'Brien review article.
18	each of these study designs.	
19	I would not say a prospective study to	18 Exhibit 25 is Woolen. Exhibit 26 is
20	examine the association between an exposure that	19 Bradford Hill.
21	÷	20 ON RECORD AT 5:50 P.M.)
	potentially happens early in life and a disease of	21 EXAMINATION
22	very late onset that is relatively rare is an	22 QUESTIONS BY MS. PARFITT:
23	ideal study for a prospective study. That is	23 Q Dr. Cote, I just have a few questions for you.
24	better suited to a retrospective study.	What I would like you to do is reference now
25	With that said, I don't think the cohort	25 Pages 13 and 14 of your report and the section
	Page 311	Page 313
		_
1	evidence in this particular analysis that I have	1 entitled Biologic Mechanisms Linking Perineal Talc
2	evidence in this particular analysis that I have laid out here today differs from the case control	1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer.
2 3	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall	<ol> <li>entitled Biologic Mechanisms Linking Perineal Talc</li> <li>and Ovarian Cancer.</li> <li>Are you there?</li> </ol>
2	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.	<ol> <li>entitled Biologic Mechanisms Linking Perineal Talc</li> <li>and Ovarian Cancer.</li> <li>Are you there?</li> <li>A Yes.</li> </ol>
2 3	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.  Q Last question, on Page 6 of your report I will	<ol> <li>entitled Biologic Mechanisms Linking Perineal Talc</li> <li>and Ovarian Cancer.</li> <li>Are you there?</li> <li>A Yes.</li> <li>Q You were asked by counsel several questions with</li> </ol>
2 3 4	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.  Q Last question, on Page 6 of your report I will try to reserve three minutes.	<ol> <li>entitled Biologic Mechanisms Linking Perineal Talc</li> <li>and Ovarian Cancer.</li> <li>Are you there?</li> <li>A Yes.</li> </ol>
2 3 4 5	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.  Q Last question, on Page 6 of your report I will try to reserve three minutes.  Please go to Page 6 of your report.	<ol> <li>entitled Biologic Mechanisms Linking Perineal Talc</li> <li>and Ovarian Cancer.</li> <li>Are you there?</li> <li>A Yes.</li> <li>Q You were asked by counsel several questions with</li> </ol>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	evidence in this particular analysis that I have laid out here today differs from the case control studies. The point estimates may differ. Overall the positive association exists.  Q Last question, on Page 6 of your report I will try to reserve three minutes.  Please go to Page 6 of your report.  A I'm there.  Q Throughout your Bradford Hill analysis you conclude each section, or most of the sections, with commentary.  For example with strength you say, I give strong weight to strength. In some instances you say, I give, you know, low weight or something like that.  A Yes.  Q My question is for each of the factors when you provide that description are you saying that you find the evidence strongly supports that factor, or are you saying methodologically you find that factor to be important in a causal analysis?  A I find it the latter. From a methodology	1 entitled Biologic Mechanisms Linking Perineal Talc 2 and Ovarian Cancer. 3 Are you there? 4 A Yes. 5 Q You were asked by counsel several questions with 6 regard to articles that you reviewed for purposes 7 of your opinion in the areas of invitro studies, 8 invivo studies, and cellular studies. 9 Do you remember that many, many hours ago? 10 A Yes, I do. 11 Q All right. What is the significance, if any, of 12 your review of these invitro, invivo, and cellular 13 studies to your causation opinion? 14 A It's really right there in the title. It is the 15 biologic mechanism piece of this trying to show 16 that, yes, indeed, something kind of at the entry 17 of the female genital tract can move up that 18 tract. 19 Things that there's that scientific word 20 "things" again particles, materials, foreign 21 objects, including something like talc, can then 22 move into various tissues in the female

Page 314		Page 316
And by nature of the fact that talc does not	1	A Talc without asbestiform fibers.
disintegrate, that it can eventually produce	2	Q Okay. Was the talc that was reviewed in 2010 talc
* * *	3	that contained asbestos?
	4	MR. JAMES: Objection to the form.
	5	A No. That was what was reviewed later. It's
	6	earlier in the report. I should have done this
	7	opposite.
	8	That is what was reviewed in 2012. So 2010
-		was talc without asbestos.
		Q Dr. Cote, did any of the questions raised by
		counsel for Johnson & Johnson today throughout the
		seven hours of questioning change the opinions
		which you will be sharing with the jury and the
		court in this case that talcum powder use in the
		genital area can cause ovarian cancer?
		MR. JAMES: Objection to form, please.
		A No. There is nothing we have discussed today that
		changes the overall opinions contained in my
		expert report.
		• •
		Q Okay.
		MS. PARFITT: That is all that I have.
		Thank you.
		EXAMINATION OUTSTONG DV MP. LAMES
		QUESTIONS BY MR. JAMES:
MR. JAMES: Objection to form.	25	Q One follow-up, I think, in my four minutes.
Page 315		Page 317
A Okay. So it goes back also to the biological		Did you look at any studies dealing with talc
mechanism. It adds in the IARC reports and I'm		minors or millers?
		Have you ever looked at any of those studies?
recent monograph was the one that focused on		A I think a lot of that information was included in
Group 1 carcinogens that included talc that may		both the IARC reports as well as Health Canada.
form fibers that are asbestiform in habit and that		did not focus at all on occupational studies with
type of talc referred to as fibrous talc had been		respect to ovarian cancer.
classified by IARC as a Class 1 human carcinogen.		Q Okay.
That was the Group 1 analysis in 2012. In	_	MR. JAMES: That will be it. Thank you
2010 it was the overall conclusion of the		for your time.  A No. Thank you.
report was that use of, perineal use of talc-based	l .	MS. PARFITT: We will read and execute
powder is possibly carcinogenic to humans. That		
was the Group 2B.		signature. Thank you. (OFF RECORD AT 5:57 P.M.)
Again, it's just more biologic plausibility.		(OIT RECORD AT 3.37 F.MI.)
Q The 2010 monograph, what was the agent that was		
reviewed?		AND FURTHER DEPONENT SAITH NOT
Was it talcum powder?		AND I ONTHER DEFOREMT SATTITION
Was it talcum powder with asbestos?	19	
Was it talcum powder without asbestos?	19	
•		MICHELE L. COTE, PH.D., M.P.H.
What was the agent reviewed by the working	20	1711 CILLED D. COID, I II.D., 171.1 .II.
What was the agent reviewed by the working group back in 2010?	20 21	, ,
group back in 2010?	21	
group back in 2010?  MR. JAMES: Objection to form, please.	21 22	
group back in 2010?	21	
	And by nature of the fact that talc does not disintegrate, that it can eventually produce chronic inflammatory response. We see that with, you know, bringing macrophages and those sorts of things into the tissue. And that immune response starts a cascade of other sorts of cancer-related hallmarks of cancer and things that we know cancer cells do, like proliferation. We know they try to avoid the immune system. There is less apoptosis. So those sorts of things.  So it was really trying to build this biological mechanism as part of the Bradford Hill analysis as to how could talc be associated with ovarian cancer?  What is the underlying biological mechanism?  Q You were asked several questions, again, hours ago with regard to issues pertaining to asbestos and it's association with ovarian cancer and also fibrous talc and it's association with ovarian cancer.  What, if anything, significance based upon your research and your opinions today does asbestos and fibrous talc, how does that add, if it does, to your causation opinions in this case?  MR. JAMES: Objection to form.  Page 315  A Okay. So it goes back also to the biological mechanism. It adds in the IARC reports — and I'm looking at my statements right now. The most recent monograph was the one that focused on Group 1 carcinogens that included talc that may form fibers that are asbestiform in habit and that type of talc referred to as fibrous talc had been classified by IARC as a Class 1 human carcinogen.  That was the Group 1 analysis in 2012. In 2010 it was — the overall conclusion of the report was that use of, perineal use of talc-based powder is possibly carcinogenic to humans. That was the Group 2B.  Again, it's just more biologic plausibility.  Q The 2010 monograph, what was the agent that was reviewed?  Was it talcum powder?	And by nature of the fact that talc does not disintegrate, that it can eventually produce chronic inflammatory response. We see that with, you know, bringing macrophages and those sorts of things into the tissue. And that immune response starts a cascade of other sorts of cancer-related hallmarks of cancer and things that we know cancer cells do, like proliferation. We know they try to avoid the immune system. There is less apoptosis.  So those sorts of things.  So it was really trying to build this biological mechanism as part of the Bradford Hill analysis as to how could talc be associated with ovarian cancer?  What is the underlying biological mechanism?  Q You were asked several questions, again, hours ago with regard to issues pertaining to asbestos and it's association with ovarian cancer and also fibrous talc and it's association with ovarian cancer.  What, if anything, significance based upon your research and your opinions today does asbestos and fibrous talc, how does that add, if it does, to your causation opinions in this case?  MR. JAMES: Objection to form.  Page 315  A Okay. So it goes back also to the biological mechanism. It adds in the IARC reports — and I'm looking at my statements right now. The most recent monograph was the one that focused on Group 1 carcinogens that included talc that may form fibers that are asbestiform in habit and that type of talc referred to as fibrous talc had been classified by IARC as a Class 1 human carcinogen.  That was the Group 1 analysis in 2012. In 2010 it was — the overall conclusion of the report was that use of, perineal use of talc-based powder is possibly carcinogenic to humans. That was the Group 2B.  Again, it's just more biologic plausibility.  Q The 2010 monograph, what was the agent that was reviewed?  Was it talcum powder?

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 1 STATE OF INDIANA )
              ) SS:
 2 COUNTY OF BOONE )
 3
 4
       I, Wendi Kramer Sulkoske, Notary Public in and
 5
      for said county and state, do hereby certify that
      MICHELE L. COTE, PH.D., M.P.H. the deponent herein
 6
 7
      was by me first duly sworn to tell the truth in
 8
      the aforementioned matter;
 9
          That the foregoing deposition was taken on
10
      behalf of the Defendants at the time and place
11
      heretofore mentioned with counsel present as
12
13
           That the deposition was taken down in
14
      Stenograph notes, reduced to typewriting under
15
      my direction, is a true record of the testimony
16
      given by said deponent, and was thereafter
17
      presented to the deponent for signature.
18
          That this certificate does not purport to
19
      acknowledge or verify the signature hereto of
20
      the deponent.
21
           I do further certify that I am a
22
      disinterested person in this cause of action;
23
      that I am not a relative or attorney of any of
24
      the parties or otherwise interested in the event
25
      of this action, and am not in the employ of the
                                                         Page 319
 1
       attorneys for the respective parties.
 2
          IN WITNESS WHEREOF, I have hereunto set my
 3
       hand and affixed my notarial seal this 1st
 4
       day of April, 2024.
 5
 6
            <%1316,Signature%>
 7
          Wendi Kramer Sulkoske, Notary Public
 8
10 Commission Number NP0661030
11 My commission expires December 1, 2030.
   My County of residence is Boone.
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[**& - 20**] Page 1

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> Golkow Technologies, A Veritext Division

### Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

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foregoing transcript is a true, correct and complete

transcript of the colloquies, questions and answers

as submitted by the court reporter. Veritext Legal

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